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CHIAYO

- **UNITY SYSTEM 1H:**
  VHF 16 Channel Handheld System
- **UNITY SYSTEM 1BT:**
  VHF 16 Channel Beltpack/Tieclip System
- **UNITY SYSTEM 1BH:**
  VHF 16 Channel Beltpack/Headset System

The new Unity System 1 Series of VHF 16 Channel Wireless Microphone Systems brings high performance and simplicity together to provide a full range of ready to use, complete systems.

Supplied in strong, lightweight ABS cases for safe storage and transportation.

Features:

- 16 Channel VHF
- High sensitivity and excellent image rejection
- Single compander design
- Pilotone control
- True Diversity reception
- Half-19" Receiver casing
- Balanced audio output (XLR) / Unbalanced audio output (phono jack)
- Selectable MIC or LINE output level
- RF test function
- AF, RF and Diversity LED bar indicators

Specifications:

Model:	UNITY SYSTEM 1 SERIES
Frequency Range	160 ~ 260MHz
Channels per Band	16 Selectable
Special Functions	Compander, Pilotone
Transmitters:	
Controls	ON/OFF, Channel Set, Gain
Power	3 x AA batteries. Up to 16 hours operating time*
Receiver:	
Display Screen	LCD bar indicators
Antennas	Compact (supplied). High gain external (optional)
Controls	ON/OFF, Channel Select, Squelch, Volume Control, RF Test
Indicators	AF, RF, Power On
Outputs	Balanced/Unbalanced
Power	12v DC via 230v PSU

* Measured with high quality ('Duracel' Alkaline) batteries

- **UNITY SYSTEM 7H:**
  UHF 100 Channel Handheld System
- **UNITY SYSTEM 7BT:**
  UHF 100 Channel Beltpack/Tieclip System
- **UNITY SYSTEM 7BH:**
  UHF 100 Channel Beltpack/Headset System

The new Unity System 7 Series of UHF 100 Channel Wireless Microphone Systems utilise the highest quality technology and components for true high performance, multichannel, wireless sound.

These high specification UHF systems offer 100 channel selection for greater control and resistance to interference.

Supplied as ready to use, complete systems and housed in strong, lightweight ABS cases for safe storage and transportation.

Features:

- 100 factory preset user-selectable UHF frequencies
- Advanced microprocessor control, with improved signal performance for interference-free, multi-channel operation
- Auto Scan function searches for the cleanest frequency
- True Diversity for highest quality reception with no dropouts
- Battery signal indicator on receiver panel monitors transmitter battery status
- LCD on both receiver and transmitter
- High sensitivity, high selectivity and high image/spurious rejections
- Anti-interference Pilotone control and RF Noise Squelch circuitries
- Balanced and unbalanced audio outputs
- Rack mountable with 19" rack mount kit (optional)
- UP, DOWN, MENU, SET function buttons
- White-in-blue LCD display
- RF/AF signal strength, Diversity A/B indicators
- Easy to read, programmable, multi-function LCD

Specifications:

Model:	UNITY SYSTEM 7 SERIES
Frequency Range	CH38: 600 ~ 900MHz
Channels per Band	100 Selectable
Special Functions	Compander, Pilotone
Transmitters:	
Display Screen	LCD, Channel/Frequency, Sensitivity, Battery Level indicator
Controls	ON/OFF, Gain, Channel Set
Power	2 x AA batteries. Up to 12 hours operating time*
Receiver:	
Display Screen	LCD showing full function read out
Antennas	Compact (supplied). High gain external (optional)
Controls	Volume, Channel, Auto Scan, Squelch via LCD readout
Indicators	Diversity reception, Weak TX Battery Alarm, RF & AF signal strengths
Outputs	Balanced/Unbalanced
Power	12v DC via 230v PSU

* Measured with high quality ('Duracel' Alkaline) batteries

Need help choosing the right product?
Call our technical support team now on:
Tel. +44(0)115 977 0075

CHIAYO

- The Chiayo range of Portables and Wireless Microphone Systems are available with a whole host of options, accessories and 'separates' to enhance or expand your system, including:

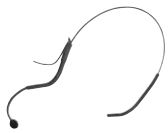
Microphone Options for use with all UHF & VHF Systems:

(Must be used with Beltpack Transmitter)

Models:

Model:	Description
MC-76X	Slimline Headset Microphone
MC-73X	High Performance Headset Microphone
MC-70X	Aerobics Headset Microphone
MC-15X	Tieclip Microphone (Cardioid)
MC520X	Tieclip Microphone (Omni)
MC75X	Collar Microphone

MC–76X



MC–73X

MC–70X

MC–15X

MC520X

MC75X

Unity System 1 Accessories:

Models:

Model:	Description
AD-15	VHF Antenna Divider
RA-10	VHF Remote Antenna

AD–15

RA–10

Unity System 7 Accessories:

Models:

Model:	Description
AD-85	UHF Antenna Divider
RA-80	UHF Remote Antenna
AB-80	UHF Antenna Booster
DA-80	UHF Directional Antenna

AD–85

RA–80

AB–80

DA–80

All Unity System Accessories:

Models:

Model:	Description
FM-800	Front-mounting Antenna Extender
MP-50	Rackmount Kit for UHF & VHF Receiver Units
MP-12	Rackmount Filler Panel

FM–800

MP–50

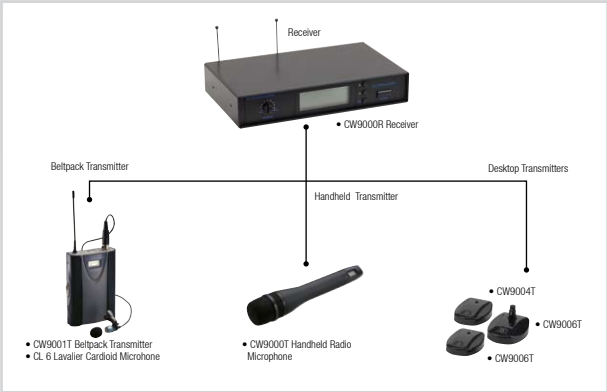
MP–12

• **CW9000 Series:** UHF Multi-channel Radio Microphone System

Versatile, flexible and easy to use, multi-channel system with two receiver, full diversity reception. UHF operation for resistance to interference (bands within the range 630 ~ 960MHz according to local regulation). 192 PLL pre-selectable channels per band. Compact half rack size, full diversity receiver with full controls, comprehensive LED display and balanced/unbalanced outputs.

Available with a choice of beltpack transmitter with lavalier microphone, handheld transmitter microphone or our innovative new wireless desktop base mounts for use with Clockaudio's full range of gooseneck microphones.

Each transmitter option features LCD display for frequency and battery status, easy-to-use controls for ON/OFF, frequency selection and AF levels. A full range of included and optional accessories are also available to complement the CW9000 Series.



• **CW9000R:** UHF Receiver

Specifications:

Model:	CW9000R
System FM Carrier	UHF
Frequency Range	630 ~ 960MHz (bands according to regulation)
Channel Frequencies	192 PLL selectable channels per band
Frequency Stability	± 0.005%
S/N Ratio	>100dB
Audio Output Level	-12dB
AF Output Impedance	600Ω
Squelch	'Pilot Tone' and 'Noise Mute'
Power	External 12v DC; 500mA

• **CW9000T:** UHF Handheld Radio Microphone

Specifications:

Model:	CW9000T
Microphone	Dynamic Cardioid
LCD Display Information	Frequency, AF level and battery status
Power	2 x AA batteries giving more than 10 hours use

• **CW9001T:** UHF Beltpack Transmitter

Specifications:

Model:	CW9001T
System FM Carrier	UHF for reduced interference
Frequency Range	630 ~ 960MHz (bands according to regulation)
Channel Frequencies	192 PLL selectable channels per band
RF Output	10mW
Frequency Stability	±0.005%
Frequency Deviation	±48kHz
Frequency Response	50Hz ~ 15kHz
Dynamic Range	> +110dB
Controls	Power ON/OFF, Frequency and AF level set

• **Beltpack Microphone Options**

(see page 156 ~ 157 for details)

Lavalier Tieclip Microphone: **CL4**

Micro Lightweight Headworn Boom Mic: **CMH2000**

Rugged Lightweight Headworn Boom Mic: **HW1500**

Lightweight Headworn Boom Mic: **HW1200**

CLOCKAUDIO
PROFESSIONAL MICROPHONE SYSTEMS

- **CW9004T:** UHF Desk Wireless Microphone Transmitter - Tini QG XLR
- **CW9005T:** UHF Desk Wireless Microphone Transmitter - Built-in Microphone
- **CW9006T:** UHF Desk Wireless Microphone Transmitter - XLR

Microphones for use with CW 9004T Unit
(See page 119 for full specifications):

Model:	Length	Shaft
C3100	100mm	Flexible
C310-R	100mm	Rigid
C312-SR	200mm	Semi-rigid
C313-SR	300mm	Semi-rigid
C314-SR	400mm	Semi-rigid

CW9004T

CW9005T

CW9006T

Specifications:

Model:	CW9004T	CW9005T	CW9006T
Frequency Range	630 ~ 960MHz (According to local regulation)		
Channel Frequencies	192 PLL selectable channels per frequency band		
Polar Pattern	-	Omni-directional	-
Audio Bandwidth	-	50Hz ~ 18kHz	-
RF Output	10mW		
Frequency Deviation	±48kHz		
S/N Ratio	> 102dB		
Audio Frequency Response	50Hz ~ 15kHz		
Dynamic Range	> +110dB		
LCD Information	Frequency and battery status		
Switching	Programmable touch switch and LED indicator		
Power Supply	2 x AA batteries giving more than 9 hours use		
Output	-	-	24v Phantom Power
Connections	3 Pin Tini Q Mini XLR	-	3 Pin XLR
Dimensions & Weight	115(W) x 40(H) x 125(D) mm / 0.4kg		

- **CU2:** Intelligent Battery Charger

Features:

- Processor controlled
- Built-in active monitoring circuitry
- Pulse charging system
- Temperature sensor
- Two dedicated compartments for charging two CW9004T, CW9005T or CW9006T Transmitters
- Charging time: 6 hours
- Power Supply: Input 90 ~ 260v AC
  Output 12v DC 1.25A

Wireless Microphone Accessories

- **S210X** (shown here with C816E microphone)

The S 210-X has a fixed height, folding, long legged stand with a die-cast base for stability and ease of transport. Fitted with a 3 pin XLR connector at the base and the top. Overall height 1023 mm. (For use with CW 9006T Transmitter)

- **AA9000:** Antenna Distribution Amplifier

Specifications:

Model:	AA9000
Carrier Frequency	470 ~ 870MHz
Antenna Inputs	2 (BNC)
Antenna Outputs	4 x pairs (BNC)
Output Connector Isolation	24dB
Nominal Cascade Gain	3dB
Inline Antenna Power	12v DC, 120mA
Power Supply	4 x 12v DC
Mains Input Voltage	90 ~ 264v AC 50/60 Hz

- **CW9000C:** Interchangeable Microphone Head

Specifications:

Model:	CW9000C
Type	Condenser (Back Electret)
Polar Diagram	Cardioid
Frequency Response	60Hz ~ 18kHz
Impedance	400Ω
Sensitivity	-50dB (0dB=1v/Pa)

- **AB9000:** Antenna Booster

Specifications:

Model:	AB9000
Carrier Frequency	470 ~ 870MHz
Antenna Gain	1.8dBi
Booster Gain	0dB +2/-1
Antenna Coverage	360°
Operating Voltage	12 ~ 18v DC
Inline Antenna Power	12v DC, 120mA

CLOCKAUDIO
PROFESSIONAL MICROPHONE SYSTEMS

• CMH2000: Micro Lightweight Headworn Microphone (Black)
• CMH2000B: Micro Lightweight Headworn Microphone (Beige)

An extremely lightweight and low profile professional microphone for use in theatres, presentations, broadcast studios and places of worship. Shaped and lightly sprung to fit any head contour and remain in place even during high activity. Flexible boom arm for optimum positioning of microphone.

Features:

- Omni-directional back electret condenser microphone
- Perspiration drip barrier to protect microphone
- Wide band, smooth response
- Black or beige, easy-clean finish

Specifications:

Model:	CMH2000
Microphone	Condenser (back electret)
Polar Pattern	Omni-directional
Frequency Response	30Hz ~ 18kHz
Sensitivity	-33dB ±3dB @ 1kHz 0dB=1v/Pa)
Impedance	4.4kΩ
Power Requirements	1.5 ~ 9v (Standard operating voltage 1.5v)
Termination	Tini Q Female 4 pin connector

• HW1500: Rugged Lightweight Headworn Microphone

Rugged and lightweight microphone for use in presentations, commentaries, broadcast reporting and by instructors - waterproof microphone makes it particularly suitable for aerobic and fitness instructors. Shaped, lightly sprung and with headband to fit all head contours comfortably and remain in place even with vigorous activity.

Features:

- Plastic injected headband, gooseneck and capsule head for protection against corrosion
- Flexible boom arm for optimum positioning of microphone
- Waterproof bi-directional close talking back electret condenser microphone with smooth low feedback response

Specifications:

Model:	HW1500
Microphone	Condenser (back electret)
Polar Pattern	Bi-directional close talking with W15 Windshield
Frequency Response	300Hz ~ 5kHz
Sensitivity	-44db ±3dB @ 1kHz (0dB=1v/Pa)
Impedance	1kΩ
Power Requirements	1.3 ~ 12v (Standard operating voltage 1.5v)
Termination	Tini Q Female 4 pin connector

Includes **W 15 windshield**

• HW1200: Lightweight Headworn Microphone

A lightweight cardioid microphone for use in presentations, guided tour systems and telesales applications.

Specifications:

Model:	HW1200
Microphone	Condenser (back electret)
Polar Pattern	Cardioid
Frequency Response	50Hz ~ 18kHz
Sensitivity	-50db @ 1kHz (0dB=1v/Pa)
Impedance	680Ω
Power Requirements	1.5 ~ 9v DC (standard operating voltage 1.5v)
Termination	Tini Q Female 4 pin connector

Includes **W 12 windshield**

• CTH100: Throat Microphone

This throat microphone has been engineered to provide superb speech intelligibility even in high background noise environments.

Special attention has been given to ensure a comfortable wear over long durations with ergonomic strap and transducer housing design.

Features:

- Available with a variety of IP67 terminations and PTT switches
- Water immersion resistant
- Rugged and durable

Specifications:

Model:	CTH100
Generating Element	Electret Condenser
Frequency Response	350Hz ~ 8kHz
Sensitivity	Equivalent output to standard microphones
Current Drain	0.54mA @ 2.5v through 2.2kW
Bias Voltage	2.5 ~ 6v DC
Output Impedance	900Ω
Operating Temperature	-20ºC ~ +70ºC
Storage Temperature	-40ºC ~ +70ºC
Weight	0.05kg

• CL4: Lavalier Omni-directional Microphone (Black)
• CL4B: Lavalier Omni-directional Microphone (Beige)

Ultra miniature, omni-directional lavalier condenser microphone suitable for hands-free applications in pro-audio. Available in black or beige, complete with windshield and tie clip.

Specifications:

Model:	CL4
Frequency Response	50Hz ~ 18kHz
Sensitivity	-44dB @ 1kHz (0dB=1v/Pa)
Impedance	1kΩ
Power Requirements	1.5 ~ 9v (standard operating voltage 1.5v)
Termination	Tini Q Female 4 pin connector

CHIAYO

Coach400 Wireless Portable PA System - UHF 160

Focus505 Wireless Portable PA Systems - UHF 161

Focus500/IR Wireless Portable PA Systems - Infrared 162

Challenger1004 Wireless Portable PA Systems - UHF 163

Accessories 164 ~ 167

Guided Tour Wireless Systems - UHF 168

CHIAYO

Coach400: Wireless Portable PA System (Wired Mic or UHF)

The new Coach 400 is an ideal 'personal' portable PA system, designed to be worn over the shoulder for walking tour guides, demonstrations and coaching or mounted on the Chiayo ST-30 tripod for use in classrooms, lecture theatres, trade fairs, etc.

Supplied as standard with handheld wired microphone, the Coach 400 can also be supplied with the SQ5016AT UHF handheld wireless microphone, or SM5016 beltpack & headset/tieclip microphone options.

This stylish, compact and lightweight little unit features an in-built 25W class D amplifier, 4" full-range loudspeaker, rechargeable battery and USB 2.0 MP3 player. Other features as standard include 2 alarm sounders for emergency broadcasting, Aux inputs & outputs and detachable shoulder strap for ease of carrying.

Features:

- High efficiency output power with built-in 25W class D power amplifier
- Truly wireless! Battery operation eliminates all cables so you can take it anywhere!
- 4" full range speaker system
- USB 2.0 MP3 player with LCD display
- 16 Channel UHF microphone receiver
- 2 alarm sounds for emergency broadcasting
- Lithium battery offers extended operation time and minimises weight and size
- 3.5mm stereo Aux In/Out connectors
- Can be worn over the shoulder or mounted on ST-30 tripod stand
- Suitable for indoor and outdoor applications

See page 166 for a full range of accessories.

Specifications:

Model:	Coach400
Output Power	25W (RMS)
Speaker System	4" full range
THD	<0.5%
Audio Inputs	Mic In / Aux In / USB2.0
Audio Outputs	Aux Out
Power Supply	230v 1.5A/20v DC 2.5A
Battery Type	14.8v/2.4AH (Lithium)
Operating Life	Music: 5 ~ 6 hours, Voice: 10 ~ 12 hours
Charging Time	4 hours (approx.)
Frequency Response	50Hz ~ 20kHz ±3dB
Dimensions	156(W) x 156(H) x 205(D) mm
Weight	1.6kg

- **Focus System 16H:**
  Focus 505 with Handheld Mic (UHF)
- **Focus System 16BH:**
  Focus 505 with Headset Microphone (UHF)
- **Focus System 16BT:**
  Focus 505 with Tieclip Microphone (UHF)

The new design Focus 505 has to be one of the most compact, lightweight, full-function portable systems there is!

This little unit features internal UHF microphone receiver, built-in 30W amplifier, full-range loudspeaker, CD with pitch control and USB MP3 player - all squeezed into a box no bigger than A4!

With output power and sound quality you'd expect from something much bigger, the Focus 505 is capable of coverage up to 400m².

Main Features:

- Truly wireless! Battery operation eliminates all cables for true portability
- Choice of wireless microphone options (Beltpack or Handheld)
- Choice of single or dual channel microphone receivers
- CD player with pitch control, plus complete USB MP3 player & IR remote control
- Built-in 30W amplifier
- Built-in 6½" full range speaker
- MIC IN / AUX IN with dedicated volume control
- AUX OUT to connect to PA system or input of AV system
- Loudspeaker Output for Focus extension speaker
- Charging / battery status indicators
- Tone control
- Tripod mountable (ST-40)
- Dual power supply AC or DC operation

Radio Frequency Features:

- For indoor & outdoor use
- UHF 16 CH Receiver
- Non-diversity receiving
- Compander circuit improves signal-to-noise ratio and reduces background noise
- Anti-interference pilotone circuit
- Built-in receiving antenna

System Package Details:

- **Focus System 16H:** Focus 505, 16 channel UHF with CD, USB MP3 and IR remote with UHF handheld microphone transmitter & canvas carry case
- **Focus System 16BH:** Focus 505, 16 channel UHF with CD, USB MP3 and IR remote with UHF beltpack transmitter, headset microphone & canvas carry case
- **Focus System 16BT:** Focus 505, 16 channel UHF with CD, USB MP3 and IR remote with UHF beltpack transmitter, tieclip microphone & canvas carry case

Passive extension speaker for Focus 505: **SP505**

Active extension speaker for Focus 505: **PA505R**

See page 166 for a full range of accessories.

Specifications:

Model:	Focus 505
Output Power	30W (RMS)
Frequency Range	CH 38 ~ 606.125, 606.975, 607.650, 608.150, 608.475, 609.225, 609.750, 610.625, 610.975, 611.425, 611.750, 612.250, 612.575, 612.975, 613.450, 613.975 Licence required (visit www.jfmg.co.uk)
Oscillation Type	Quartz locked fixed frequency
Frequency Stability	±0.005%
Receiving Method	Non-Diversity
Frequency Response	50Hz ~ 15kHz
Speaker	6½" Full Range Driver
Audio Inputs	MIC IN, AUX IN
Audio Outputs	AUX OUT
Power Supply	230v AC / Internal Battery
Battery Recharge	3 ~ 4 hours
Battery Life	Music: 5 ~ 6 hours / Voice: 10 ~ 12 hours
Dimensions	213(W) x 313(H) x 215(D) mm
Weight	5.5kg

CHIAYO

Focus500/IR: Compact Portable Presentation System (Infrared)

The new Focus 500IR is an infrared version of our highly popular Focus range. With all the same features as our UHF versions (built-in amplifier & loudspeaker, CD player, USB MP3 player, 230v AC/internal battery operation, etc), the Focus500IR features an infrared microphone receiver/transmitter which allows for any number of adjacent, multi-room systems without the limitations of number of channels.

As the infrared microphone signal is light-based, the simple separation of walls and doors will allow any number of adjacent systems - such as a number of classrooms - without signal interference.

Features:

- Truly wireless! Battery operation and IR signal eliminates all cables for true portability
- Infrared wireless microphone signal for multi-room systems
- Supplied as standard with IR handheld microphone
- CD player with integrated USB MP3 player and IR remote control
- Built-in 30W amplifier
- Built-in 6½" full range speaker
- Dual power supply AC or DC operation

System Package Details:

- **Focus System IRH:** Focus 500 Infrared with CD, USB MP3 players infrared handheld microphone/transmitter & canvas carry case

(Please Note: The IR model is not suitable for outdoor use due to high light levels affecting the infrared signal.)

See page 166 for a full range of accessories.

Infrared Pendant Microphone: **IWM–402**

Infrared Handheld Microphone: **IWH–401**

Specifications:

Model:	Focus500/IR
Output Power	30W (RMS)
Receiving Method	Infrared
Frequency Response	50Hz ~ 15kHz
Speaker	6½" Full Range Driver
Audio Inputs	MIC IN, AUX IN
Audio Outputs	AUX OUT
Power Supply	230v AC / Internal Battery
Battery Recharge	3 ~ 4 hours
Battery Life	Music: 5 ~ 6 hours / Voice: 10 ~ 12 hours
Dimensions	213(W) x 313(H) x 215(D) mm
Weight	5.5kg

- **Challenger System 16H:** Challenger 1004 with Handheld Microphone (UHF)
- **Challenger System 16BH:** Challenger 1004 with Headset Microphone (UHF)
- **Challenger System 16BT:** Challenger 1004 with Tieclip Microphone (UHF)

Now further upgraded with a new 120W class D built-in amplifier, the new Challenger 1004 UHF is an all-in-one, multi-functional, multi-purpose, wireless portable sound system designed for both indoor and outdoor use, capable of high quality sound coverage up to 800m².

Compact and lightweight, it features CD player with pitch control and integrated USB MP3 player and will now allow for up to 4 UHF microphone receivers.

The Challenger 1004 also features easy to use controls and retractable handle to allow the unit to be easily transported.

Features:

- New 120W (RMS) class D internal amplifier and full-range loudspeaker
- Integral UHF wireless microphone receiver (plus option for an additional three receivers!)
- CD player with pitch control, complete with USB MP3 player & IR remote control
- Wired microphone/auxiliary inputs, plus line level output
- Extension loudspeaker output (8Ω)
- Optional matching extension loudspeaker (C1000 Companion)
- Internal rechargeable battery or mains operation
- Retractable handle & integrated wheels
- Tripod mountable
- Protective cover

System Package Details:

- **Challenger System 16H:** Challenger 1004, 16 channel UHF with CD, USB MP3 and IR remote with UHF handheld microphone transmitter and canvas cover
- **Challenger System 16BH:** Challenger 1004, 16 channel UHF with CD, USB MP3 and IR remote with UHF beltpack transmitter, lightweight headset microphone and canvas cover
- **Challenger System 16BT:** Challenger 1004, 16 channel UHF with CD, USB MP3 and IR remote with UHF beltpack transmitter, tie clip microphone and canvas cover

See page 166 for a full range of accessories.

Now allowing up to 4 UHF Receivers!

The new Challenger 1004 now allows for up to four UHF receivers (therefore allowing for up to 4 different microphone channels).

Combined with the new RP–6016M Wireless Transmitter Module (seen overleaf), the new portable models now allow for even greater coverage, channel flexibility and the true freedom of 'going wireless'!

Specifications:

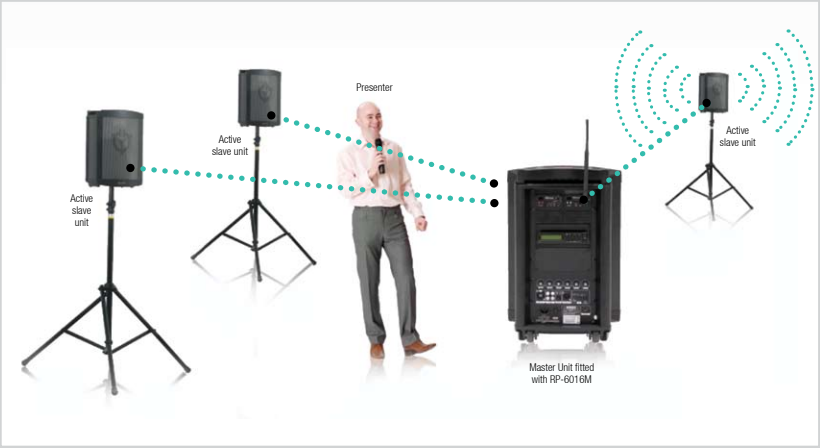
Model:	Challenger 1004
Output Power	120W (RMS)
Frequency Range (UHF / PLL)	CH 38 ~ 606.125, 606.975, 607.650, 608.150, 608.475, 609.225, 609.750, 610.625, 610.975, 611.425, 611.750, 612.250, 612.575, 612.975, 613.450, 613.975 Licence required (visit www.jfmg.co.uk)
Speaker	10" Full Range Driver
Battery Life	Music: 5 ~ 6 hours / Voice:10 hours
Battery Life (constant CD player use)	5 ~ 6 hours
Battery Recharge Time (approx)	6 hours
Built-in Charger	Yes
Music Options	CD Player with pitch control and integrated USB MP3 player
Power Requirement	230v AC / Internal Battery
Dimensions	350(W) x 500(H) x 300(D) mm
Weight	21kg

CHIAYO

- **RP-6016M:** Portable PA Wireless Transmitter Module (UHF)

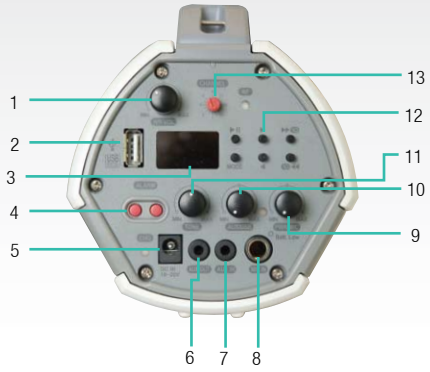
Module for multiple unit wireless-linked systems. Where larger wire-free systems are required, the inclusion of the RP-6016M Module will transmit from a Master Unit to multiple active slave units, providing the same signal output as well as remote volume control to all units on the system.

The RP-6016M is compatible with all Challenger 1004 Systems.



Portable PA System Controls on Rear Panels

Coach 400:

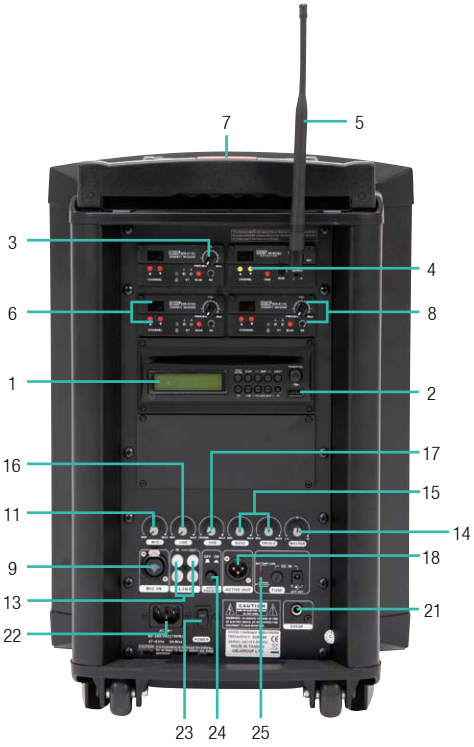


1 On/Off & Master Volume
2 USB2.0 MP3 Player Port
3 MP3 Player Display
4 Alarm Tones
5 DC Power Supply Input
6 Aux Output
7 Aux Input
8 Wired Mic Input
9 Mic Volume Control
10 Aux/USB MP3 Volume Control
11 Tone Control
12 USB MP3 Player Controls
13 UHF Receiver Channel Selector

Focus 505 & Focus 500IR:

1 CD Player Module
2 USB MP3 Player Input
3 Wired Microphone Input
4 Wired Microphone Level Control
5 Line Input/Output
6 Line Level Control
7 Tone Control
8 Wireless Microphone Level Controls
9 External/Extension Loudspeaker Output
10 Power On/Off
11 Voice Priority On/Off
12 DC Power Supply Input
13 Wireless Microphone Channel Selection

Challenger 1004:



1 CD Player Module
2 USB MP3 Player Input
3 RF Receiver Module
4 Optional RP-6016M Wireless Transmitter Module (Module slot can alternatively be used for a 4th Receiver Module)
5 RP-6016M Antenna
6 Additional Receiver Module Slot
7 Retractable Handle
8 Optional Receiver Module Slot
9 Wired Microphone Input 1
10 Wired Microphone Input 2
11 Wired Microphone 1 Level Control
12 Wired Microphone 2 Level Control
13 Line Inputs/Outputs
14 Master Volume Control
15 Tone Control
16 Line Level Control
17 CD/MP3 Level Control
18 Active Bus Input/Output
19 Master/Slave Selector
20 Slave Bus Level Control
21 External/Extension Loudspeaker Output
22 Mains Power Input
23 Power On/Off
24 Voice Priority On/Off
25 Charging Indicator

CHIAYO

- The Chiayo range of Portables and Wireless Microphone Systems are available with a whole host of options, accessories and 'separates' to enhance or expand your system, including:

Coach, Focus & Challenger Transmitter Options:

Models:

Model:	Description
SQ1016/38	16ch UHF Handheld Microphone Transmitter
SM1016/38	16ch UHF Beltpack Transmitter

SQ1016/38

SM1016/38

Focus Accessories:

Models:

Model:	Description
SDR-500M	Additional UHF 16ch Mic Receiver (Factory fitted only)
SP505	Passive Extension Loudspeaker
PA505R	Active Extension Loudspeaker
ST-40	Tripod Stand
SB21	Canvas Carry Case

SDR–500M

SP505

PA505R

ST–40

SB21

Challenger 1004 Accessories:

Models:

Model:	Description
SDR6116M	Additional UHF 16ch Receiver Module
RP-6016M	UHF 16ch Transmitter Module
03180	Tripod Stand
C1000 SLAVE	Slave Challenge Active Companion Loudspeaker
DC40	Challenger Canvas Cover

SDR6116M

RP–6016M

03180

C1000

DC40

Microphone Options for use with all UHF & VHF Systems (must be used with Beltpack Transmitter):

Models:

Model:	Description
MC-76X	Slimline Headset Microphone
MC-73X	High Performance Headset Microphone
MC-70X	Aerobics Headset Microphone
MC-15X	Tieclip Microphone (Cardioid)
MC520X	Tieclip Microphone (Omni)
MC75X	Collar Microphone

MC–76X

MC–73X

MC–70X

MC–15X

MC520X

MC75X

IWM402: Infrared Pendant Microphone Transmitter

Discreet neck worn IR transmitter with built-in microphone.

Provides hands-free transmission of voice and AUX signals as part of an installed voice reinforcement system in schools, universities, AV installations and conference venues.

The use of IR transmission allows the system to be used licence free, and also provides a secure signal that will not overspill to adjoining rooms or systems.

Features:

- Pendant transmitter with inbuilt condenser microphone
- 2 x Input jacks (2.5mm) for use with external headset microphone & Aux line level
- Bicolor LED indicates power on and battery low
- 2 channels switchable
- Input audio level control serves as remote volume control
- Operating time up to 7 hours with one dedicated 1.2v NiMH battery
- Dedicated drop-in charger (HC-40) available

IWH401: Infrared Handheld Microphone Transmitter

Features:

- Multiple emitter array of high efficiency infrared emission LEDs for optimum IR transmission
- Bicolor LED indicates power-on and battery low
- 2 channels switchable
- Unidirectional condenser cartridge for optimum audio, minimal handling noise and maximum feedback rejection
- Rugged steel mesh ball with anti-roll ring
- Operating time up to 7 hours with one dedicated 1.2v NiMH battery
- Also can be suspended around the neck with a lanyard
- Dedicated drop-in charger (HC-40) available

HC40: Infrared Microphone Drop-in Charger

For use with IWM402 and IWH401 infrared microphones.

CLOCKAUDIO
PROFESSIONAL MICROPHONE SYSTEMS

- **GT Set One:**
  9 x Receiver Guided Tour System (UHF)
- **GT Set Two:**
  19 x Receiver Guided Tour System (UHF)

A licence-free system of lightweight, 16 channel personal portable units developed for commentary or narration on guided tours, for individuals or for groups in situations such as museums, zoos, factories, gardens or outside events. Also suitable for language tuition, talk-back and multi-language translation.

UHF for reduced interference. 16 PLL selectable channels for easy and reliable operation.

Built-in microphone or loudspeaker for handheld use and external microphone or earpiece for use when clipped to a belt or pocket. Open space range >100m.

GT 300R Receiver GT300T Belt Pack Transmitter

Features:

- UHF PLL Licence-free
- 16 Selectable Channels
- Single or multi receiver capability
- Lightweight portable units with audio level adjustment
- Receiver with built-in loudspeaker for handheld use, and external ear piece for use when clipped to a belt or pocket
- Transmitter with built-in condenser microphone for handheld use, and external microphone for use when clipped to a belt or pocket
- Powered by two AA Ni-MH rechargeable batteries giving 10 ~ 12 hours use on full charge
- Intelligent chargers for 2, 10, 20 units
- Accessories available - lanyard and disposable ear pads

System Package Details:

- **GT Set One:** 1 x DC 320 Charging Flight Case
  9 x GT 300R Receiver
  1 x GT 300T Belt Pack Transmitter
- **GT Set Two:** 1 x DC 320 Charging Flight Case
  19 x GT 300R Receiver
  1 x GT 300T Belt Pack Transmitter

Specifications:

Model:	GT402T	GT502T
System FM Carrier	UHF PLL Synthesized	UHF PLL Synthesized
Frequency Range	740MHz ~ 865MHz (bands according to regulation)	740MHz ~ 865MHz (bands according to regulation)
Channel Frequencies	16 Pre-programmed switchable	16 Pre-programmed switchable
Frequency Stability	±0.005%	±0.005%
Maximum Deviation	±50kHz with level limiting	±50kHz with level limiting
Dynamic Range	<80dB	<80dB
Powering	2 x AA Ni-MH batteries averaging 10 hours use on full charge	External 12v DC 500MA, AC Adaptor 115v ~ 230v AC

Model:	GT300R	GT300T
Includes	Ear piece	Omni-directional Condenser Microphone
System FM Carrier	UHF PLL Synthesized	UHF PLL Synthesized
Frequency Range	UHF 740 ~ 865MHz (according to local regulations)*	UHF 740 ~ 865MHz (according to local regulations)*
Channel Frequencies	16 Pre-programmed switchable	16 Pre-programmed switchable
Switchable Bandwidth	12MHz	12MHz
Frequency Stability	±0.005%	±0.005%
Maximum Deviation	±50kHz with level limiter	±50kHz with level limiter
Dynamic Range	<80dB	<80dB
Frequency Response	150Hz ~ 10kHz	-
RF Output	-	10mW
Powering	2 x AA Ni-MH batteries averaging 10 hours use on full charge	2 x AA Ni-MH batteries averaging 10 hours use on full charge

*UK licence free 863 ~ 865 MHz (CH70)

Model:	DC320 Charging Flight Case
Capacity	20 (receiver or transmitter belt style only)
Indicator LED	Red charging, green fully charged
Charging Current	120mA
Charging Time	NI-MH (1300mAH) 10 ~ 12 hours
Charging Control	PWM (timer power OFF detector)

DC 302 2 Unit Desktop Charger (for hand held or belt style transmitter / receiver)
DC 310 10 Unit Charger in fitted flight case

Charging Flight Case (Transmitters sold separately): DC 320

Hand Held Transmitter: GT 402T

Transmitter: GT 502T

2 unit desktop charger: DC 302

2 unit desktop charger: DC 302

What is Soundfield Classroom Voice Reinforcement?	170 ~ 171
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Soundfield
Classroom Voice Reinforcement

Soundfield
Classroom Voice Reinforcement

Soundfield Classroom Voice Reinforcement Systems

Young people spend at least 45% of their school day engaged in active listening activities, with today's classroom serving as a primarily auditory verbal environment.

However, a study in the journal of the American Medical Association showed that 14.9% of children aged 6 ~ 19 suffer from some degree of hearing impairment, either permanently or temporarily due to illness, infection or allergies.

Studies estimate that 80% of school children will have some form of hearing loss during an academic year and, with the importance of auditory learning in the classroom, the use of technology to enhance listening performance ultimately allows children to learn more efficiently.

One of the simplest and most effective solutions is an i-ceilings 'Soundfield Voice Reinforcement System'. Functioning as a mini public address system, it features an infrared wireless microphone, receiver, amplifier and either one or two 'i-ceilings Sound Panel' loudspeakers (dependent upon the size of classroom).

Thorn Grove Primary School's SEN inclusion scheme ensures that both its mainstream and hard of hearing pupils benefit from clear, effective communication using i-ceilings Soundfield Systems in all its classrooms.

What is a Soundfield System?

'Soundfield' or a 'Soundfield Voice Reinforcement System' is essentially the integration of a 'mini-PA system' in the classroom.

Teachers' normal voice coverage

Without Soundfield, the clarity and volume of a teacher's voice will be less effective toward the back of the room.

Under quiet classroom conditions, most teachers have enough natural volume in their voice to communicate effectively with a standard sized class. However, a number of acoustic factors (lively/noisy classes, reverberant room conditions, ambient noise from equipment and outdoor activities, hearing difficulties, etc.) can have a significant effect on clear, effective teacher/pupil communication.

Using Soundfield Voice Reinforcement

Using i-ceilings Soundfield Voice Reinforcement, the teacher's amplified voice will be heard at the same clear, effective level by all pupils in the room.

The inclusion of a Soundfield System in the classroom will raise the teacher's voice above this ambient noise level, to give even voice coverage throughout the room and without the need to shout or raise one's voice. This will provide significant benefits for teacher/pupil communication and understanding.

The benefits of Soundfield in the classroom...

All children benefit from the improved speech clarity of a Soundfield System. Academic improvements are consistently noted in:

- Task behaviour
- Reduced voice strain
- Attentiveness
- Better attendance
- Less repetition required
- Understanding of instructions
- Improved verbal recognition

The inclusion of Soundfield Voice Reinforcement in the classroom provides wide ranging benefits not only to pupils and hard of hearing students, but also to teachers and acoustic/architectural designers and specifiers.

In addition to the above outstanding benefits, pupils also benefit from:

Pupils:

- More effective deciphering of language in early learning years
- Better understanding of teacher's voice for 'second language' learning
- Assists temporary hearing deficiency, common in early learning years

Teachers:

- Improved clarity of voice and understanding
- Reduced voice strain, illness and stress
- Less repetition required
- Assists inclusive teaching for SEN students

SEN students:

- Assists inclusive learning
- Easily integrates with induction loop systems
- Proven learning improvements for pupils with ADHD
- Many children with Down syndrome who have fluctuating conductive hearing loss perceive significantly more speech

Specifiers and Installers:

- Unparalleled even sound coverage
- Reduced number of loudspeakers required
- Reduced microphone feedback
- Reduced loudspeaker theft or damage
- Secure wireless signal for privacy rooms

Teacher wears lightweight 'pendant' infrared wireless microphone

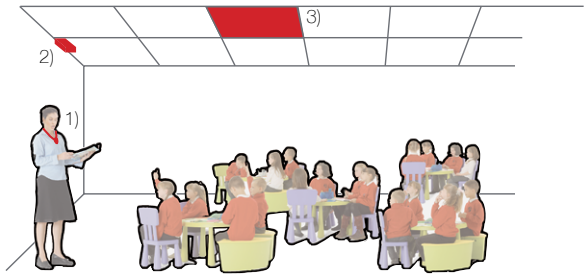
Soundfield
Classroom Voice Reinforcement

The i-ceilings Soundfield Solution

In its simplest form, a Soundfield System consists of the following components:

- Wireless microphone worn by the teacher
- Wireless microphone receiver
- Amplifier
- Loudspeakers
- Connection cables

The i-ceilings Soundfield Solution benefits from further unique component features to provide what we truly believe is the most advanced and effective system on the market.



1) Teacher-worn Infrared Microphone
2) Infrared Microphone Receiver
3) i-ceilings unique Sound Panel Loudspeaker and Integrated Amplifier

The unique i-ceilings Soundfield System features:

• i-ceilings Sound Panel Loudspeakers

Our 'i-ceilings Sound Panel' is a unique loudspeaker which fits into a suspended ceiling in the same manner as a standard ceiling tile.

This revolutionary Sound Panel loudspeaker provides unparalleled levels of even sound coverage, ensuring all students hear an equal volume level of the teacher's voice. Furthermore, i-ceilings panels are virtually unidentifiable in the ceiling ensuring aesthetic consistency and greatly reducing any problems of loudspeaker theft or vandalism.

• Infrared Wireless Microphone Technology

The i-ceilings Soundfield System also benefits from the use of an 'infrared' microphone system.

Many systems on the market use 'RF' (radio frequency) wireless microphone systems, which have many operational limitations such as the number of available frequency channels, license costs and signal overspill.

Our IR wireless system overcomes these limitations, being license-free and, by using light to transmit the microphone signal (just like your TV remote control), the signal cannot 'overspill' into adjoining classrooms; providing the ideal multi-room solution.

For more information on the benefits and application of Soundfield in the classroom, go online to:

www.soundfield.uk.com

i-ceilings 'in-ceiling' Soundfield Systems

Our flagship i-ceilings infrared Soundfield systems are arguably the most technically advanced and acoustically effective systems on the market.

System Benefits:

- Unobtrusive, yet highly effective voice reinforcement in the classroom
- Unidentifiable loudspeaker solution reduces damage or loss due to theft or vandalism
- Infrared wireless microphone technology allows unlimited adjacent room systems without licensing issues
- Easily integrated with other classroom/teaching technologies such as induction loops, personal FM hearing assistance systems, interactive whiteboards, laptops, etc,...

Soundfield PACK A:
i-ceilings CS4000 / infrared Installed Soundfield System - (60m² coverage)

- 1 x CS4000ME/AMP — Amplified i-ceilings Sound Panel
- 1 x APA/APL — CD/MP3/Laptop Input Wallplate
- 1 x IWM-402 — Pendant Transmitter/Microphone
- 2 x IS-20A — Infrared Sensors
- 1 x HC-40 — Drop-in Charger for IWM-402
- 1 x IWR-220 — Infrared Receiver

...plus connecting cables, equipment support tray, safety clip & wire, Transmitter batteries and manuals

Soundfield PACK B:
i-ceilings 2 x CS4000/ infrared Installed Soundfield System - (120m² coverage)

- 1 x CS4000ME/AMP — Amplified i-ceilings Sound Panel
- 1 x CS4000ME — i-ceilings Sound Panel (Slave)
- 1 x APA/APL — CD/MP3/Laptop Input Wallplate
- 1 x IWM-402 — Pendant Transmitter/Microphone
- 2 x IS-20A — Infrared Sensors
- 1 x HC-40 — Drop-in Charger for IWM-402
- 1 x IWR-220 — Infrared Receiver

...plus connecting cables, equipment support tray, safety clips & wires, Transmitter batteries and manuals

Soundfield PACK C:
i-ceilings PRO AMP / infrared Installed Soundfield System - (60m² coverage)

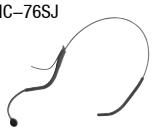
- 1 x PRO ME/AMP — Amplified i-ceilings PRO Sound Panel
- 1 x APA/APL — CD/MP3/Laptop Input Wallplate
- 1 x IWM-402 — Pendant Transmitter/Microphone
- 2 x IS-20A — Infrared Sensors
- 1 x HC-40 — Drop-in Charger for IWM-402
- 1 x IWR-220 — Infrared Receiver

...plus connecting cables, equipment support tray, safety clip & wire, Transmitter batteries and manuals

NB: Infrared Transmitters and Microphones:

These Soundfield Packs feature the IWM-402 Pendant Microphone / Transmitter as standard. A handheld microphone option is also available (Part No. IWH-401).

Headset Microphone: **MC–76SJ**



Pendant Microphone / Transmitter: **IWM–402**

Handheld Microphone: **IWH–401**

Need help choosing the right product?
Call our technical support team now on:
Tel. +44(0)115 977 0075

Soundfield
Classroom Voice Reinforcement

‘Surface-mount’ Soundfield Systems

Though much of the success of our Soundfield systems has been based on our unique i-ceilings Sound Panel Loudspeakers, there are an increasing number of systems being installed into classrooms which do not feature a suspended ceiling.

Our Packs F & G have been developed for either wall-mounting (PACK F) or surface mounting to a solid or plasterboard ceiling (PACK G). Both systems feature our own UK designed and built IRX Wallmount Integrated Amplifier/Infrared Receiver, developed specifically for Soundfield classroom voice reinforcement.

Designed to be completely safe and child-friendly, the IRX features 20W amplifier, infrared wireless microphone technology, microphone & line inputs (for integration of laptop, MP3, DVD, etc) and level/tone control, whilst remaining extremely tamper-proof against potential ‘wandering hands’.

Soundfield PACK F:
Wallmount Loudspeakers / infrared
Installed Soundfield System - (60m² coverage)

• 1 x IRX	Wallmount Amplifier/IR Receiver
• 4 x FBT Project 315WT	Wallmount Loudspeakers
• 1 x IWM-402	Pendant Transmitter/Microphone
• 2 x IS-20A	Infrared Sensors
• 1 x HC-40	Charger for IWM-402

...plus connecting cables, safety clips & wires, Transmitter batteries and manuals

Soundfield PACK G:
i-ceilings Ceiling Surface-mount / infrared
Installed Soundfield System - (60m² coverage)

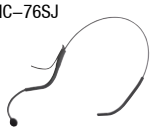
• 1 x IRX	Wallmount Amplifier/IR Receiver
• 1 x CS4500	Surface-mount i-ceilings Sound Panel Loudspeaker
• 1 x IWM-402	Pendant Transmitter/Microphone
• 2 x IS-20A	Infrared Sensors
• 1 x HC-40	Charger for IWM-402

...plus connecting cables, safety clip & wire, Transmitter batteries and manuals

NB: Infrared Transmitters and Microphones:

These Soundfield Packs feature the IWM-402 Pendant Microphone / Transmitter as standard. A handheld microphone option is also available (Part No. IWH-401).

Headset Microphone: **MC–76SJ**



Pendant Microphone / Transmitter: **IWM–402**

Handheld Microphone: **IWH–401**

- **Outreach Plates:** Audio Input Extension System

A range of wall, ceiling and desk mountable single gang audio input plates specifically designed to increase the audio input capability of any audio system. A total of six plates are available - one to suit virtually every conceivable variant of audio input connector - and each featuring a built-in mixer, pre-amp, input level control and balancing output.

See page 186 ~ 187 for full details of the Outreach Plate product range.

- **APJ:** 3.5mm Jack Outreach Plate

Accepts balanced or unbalanced microphones with 3.5mm mono jack plugs. Includes an onboard mic to line level converter, high gain pre-amplifier and 8V phantom power.

- **APL:** Dual Phono Line Level Outreach Plate

Accepts two line-level signals (usually from a stereo source such as a TV, CD, tape or DVD). Includes an on-board dual phono to mono converter. An ALS SCART to dual phono lead is also available to facilitate the connection of TVs, VCRs, etc, to the APL.

- **APQ:** ¼" Jack Outreach Plate

Accepts balanced or unbalanced microphones with 6.35mm (1/4") jack plugs. Includes an on-board mic to line level converter, high gain pre-amplifier and 8v phantom power.

- **APXM:** XLR Microphone Level Outreach Plate

Accepts balanced or unbalanced microphones with standard 3 pin female XLR connectors. Includes an on-board mic to line level converter, high gain pre-amplifier and 8v phantom power.

- **APXL:** XLR Line Level Outreach Plate

Accepts standard 3 pin female XLR feeds from audio equipment such as stage or church mixing desks, etc.

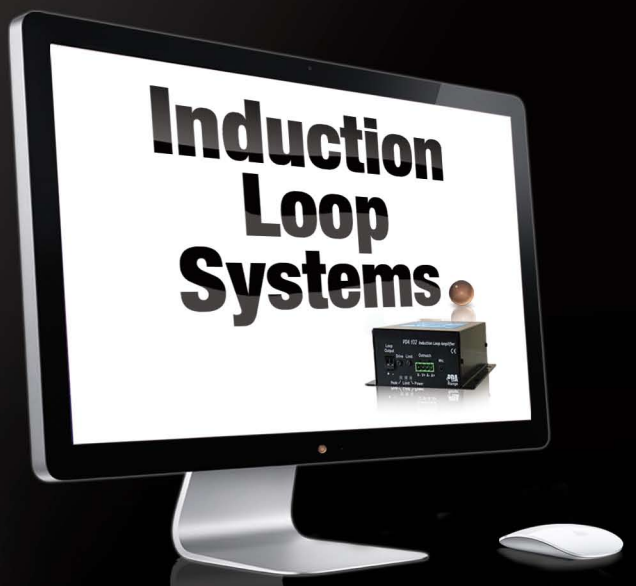
- **APM:** Omni-Directional Plated Mic Outreach Plate

A self-contained omni-directional electret microphone complete with on-board mic to line level converter. Ideal for mounting in ceilings, walls or desks, the unit offers excellent coverage (typically up to 25m^2 when located at a ceiling height of 2.5 ~ 3 metres).

Soundfield
Classroom Voice Reinforcement

Parkfields Middle School, Blyth England

Parkfields Middle School's newly-built science laboratories embrace a whole host of educational technologies including interactive whiteboards, overhead PTZ cameras and remote control blackout blinds. Communication with students is significantly enhanced using i-ceilings Soundfield Classroom Voice Reinforcement.



Choosing the right Induction Loop System	178
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Induction Loop Testers	185
Outreach Plates - Audio Input Extension System	186 ~ 187
Portable Induction Loops	188 ~ 190
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Which Induction Loop System should I use?

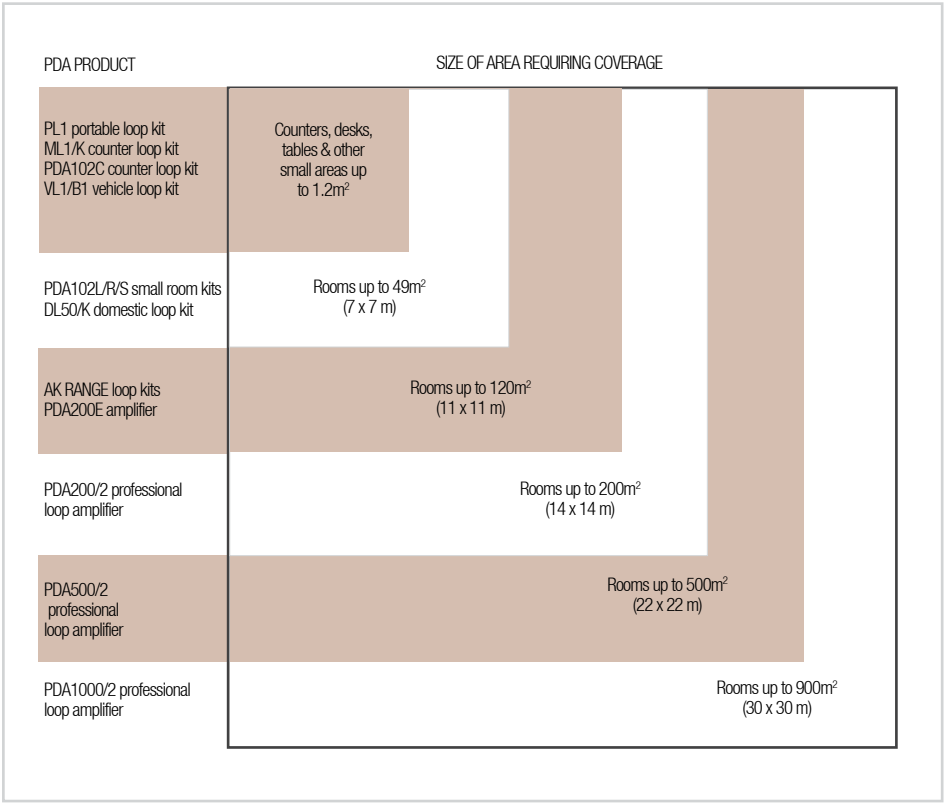
The PDA range of induction loop equipment is one of the most comprehensive in the UK. It comprises a huge range of amplifiers, microphones, connector plates and test equipment covering virtually every conceivable AFILS application.

Before deciding which induction loop system to use, you first need to ascertain the size of the area to be covered in square metres (m^2). Bear in mind it may not be necessary to cover the whole of the area, for example in a church only the pews may require coverage.

To calculate the size of the area in square metres, multiply the length by the width. For example, a room 6m x 6m in size would equal $36m^2$. The coverage provided by an AFILS amplifier is also quoted in square metres. The chart below, and information in the rest of this section, will help you select the best PDA Range product(s) for the job.

Designed to meet or exceed the requirements of BS7594 and EN60118-4 when correctly installed, all of the amplifiers in the PDA range offer excellent intelligibility, true current mode amplification, phantom power (for electret microphones) and full compatibility with the 'outreach plate' audio input extension system (except the PL1, VL1 and DL50). Many are also available in kit format for ease of specification, purchase and installation.

Induction Loop Amplifier Selection Chart


PDA PRODUCT
SIZE OF AREA REQUIRING COVERAGE
PL1 portable loop kit
ML1/K counter loop kit
PDA102C counter loop kit
VL1/B1 vehicle loop kit
Counters, desks, tables & other small areas up to 1.2m²
PDA102L/R/S small room kits
DL50/K domestic loop kit
Rooms up to 49m² (7 x 7 m)
AK RANGE loop kits
PDA200E amplifier
Rooms up to 120m² (11 x 11 m)
PDA200/2 professional loop amplifier
Rooms up to 200m² (14 x 14 m)
PDA500/2 professional loop amplifier
Rooms up to 500m² (22 x 22 m)
PDA1000/2 professional loop amplifier
Rooms up to 900m² (30 x 30 m)

ML1/K: Counter Induction Loop System

The ML1/K counter induction loop amplifier is ideal for use in post offices, banks, building societies, ticket offices and reception areas.

Mountable on a standard UK 25mm double gang back box, it can generate a loop listening field of approximately 1 to 1.5 metres and includes one microphone input, one balanced line level audio input and indicators for input peak, mains on and loop strength.

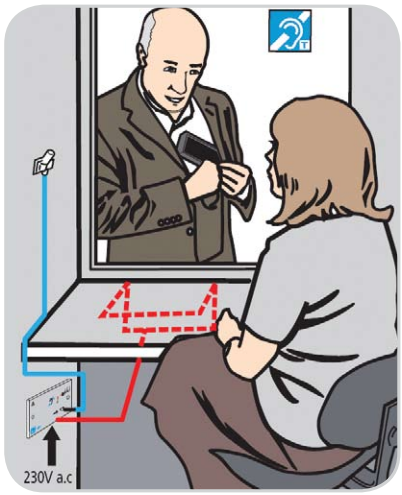
A number of easy to adjust user and engineer controls are also provided.

Microphone and loop cable are supplied as part of the kit.

Features:

- Attractive, compact design blends with any decor
- Ideal for banks, post offices, small meeting rooms, reception desks, ticket booths and any other application requiring restricted or small area coverage
- Requires no specialist audio experience or connectors - can be fitted by any competent electrician
- Space-saving double-gang wall-mounting amplifier fits standard UK 25mm back boxes (requires fixed mains wiring)
- Omni-directional AMT microphone (supplied) plugs directly into 3.5mm socket on the amplifier's front
- Line/outreach socket also provided (max. 3 outreach plates per system)
- User-adjustable mic. sensitivity and engineer adjustable loop drive and input level controls

Typical ML1/K counter/ticket booth application:



Specifications:

Model:	ML1/K
Type	Wall mounting (requires fixed mains wiring and a 25mm back box)
Coverage	1.2m² approx.
Inputs 1kHz	1 x 3.5 mm remote mic. socket; 1 x Line/Outreach socket
Indicators	Input level; power on; loop drive meter
Controls	On/off button; adjust auto-shut off timer
Kit Content	ML1 amplifier; AMT microphone; TX2 pre-formed counter loop; 'AFILS fitted' sticker
Dimensions	143(W) x 83(H) x 32(D) mm
Weight	0.3kg (amplifier only)

• **PDA102 Series:** Induction Loop Kits

SigNET's PDA102 audio frequency induction loop amplifier is ideal for any application requiring restricted or small area coverage.

Available in a variety of cost-effective kit formats, it includes a 3.5mm microphone input (with 9v phantom power) and a unique 'Outreach' input which allows the connection of multiple microphone and line level inputs via a series of single gang audio connector plates.

The amplifier's input(s) can be easily adjusted for optimum performance using the rotary level control provided on its front and an adjustable drive control is also included, allowing the amplifier's output stage to be set-up to suit the exact characteristics of any room.

The PDA102's state-of-the-art audio processor features an automatic gain control which compensates for poor microphone techniques and helps suppress loud noises, hisses and clicks. The amplifier's true current mode amplification circuitry guarantees excellent and consistent sound quality for the hearing impaired.

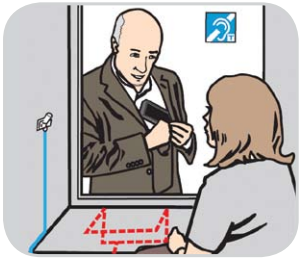
The amplifier is designed to be free-standing or wall-mounted using the keyholes provided and installation is further aided by the provision of two set-up indicators (Peak and Limit) and a 'Power On' LED.

Features:

- Ideal for ticket counters, desktops, TV lounges, interview rooms, etc
- Provides max. square room coverage of 49m^2 (7 x 7 m). Kitted 'counter loop' version provides approximately 1.2m^2 coverage
- Attractive, compact design
- Includes one 3.5mm microphone input with 9v phantom power
- Compatible with SigNET's unique 'Outreach plate' audio input extension system (allows the connection of up to 10 additional mic. or line level inputs via a series of separately available audio connector plates)
- Input Limit, Output Peak and Power On indicators
- Adjustable Limit and Drive controls
- Compact free-standing design with keyholes provided for optional wall-mounting
- Available in a variety of cost-effective kit formats that are suitable for use in ticket counters, small meeting rooms and TV lounges
- Designed to meet or exceed the requirements of BS7594 and EN60118-4 when correctly installed
- Can be used to help building managers and service providers comply with the requirements of BS8300, the Disability Discrimination Act and the Care Standards Act

• **PDA102C:** Counter Loop Kit

Everything required for a stand-alone counter loop system for a ticket office, reception desk, meeting room or any other area where a degree of privacy is required. Includes an AMT tie/desk microphone, a TX121 counter loop and two 'loop in use' stickers.

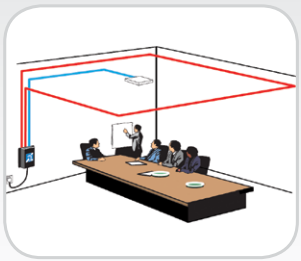


• **PDA102L:** Small Room Kit (Tie/Desk Microphone version)

Ideal for council chambers, seminar rooms and doctors' surgeries up to 7m x 7m in size. Includes an AMT tie/desk microphone, 30m of loop cable and two 'Loop in Use' stickers.

• **PDA102R:** Small Room Loop Kit (Plated Microphone version)

The PDA102R is similar to the PDA102L but instead of an AMT tie/desk mic. it includes an APM omni-directional plated microphone which is ideal for mounting in suspended ceilings. Also includes 30m of loop cable and two 'Loop in Use' stickers.



• **PDA102S:** TV / Music Lounge Loop Kit

The PDA102S is designed for use in areas such as nursing home TV lounges where it allows hearing aid users to enjoy TV/radio broadcasts. It includes an APS scart lead, an APL dual phono Outreach connection plate, 30m of loop cable and two 'Loop in Use' stickers.

Outreach Compatible:

The PDA102 Series is fully compatible with SigNET's unique 'Outreach Plate' audio input extension system. This system allows the connection of multiple microphone or line level inputs via a range of specially designed single gang connector plates covering the most common variants of audio connector including XLR line, XLR mic., 3.5mm jack, dual phono and 1/4" jack.

A maximum of 10 plates (any mix) can be daisychained to the amplifier's Outreach socket using standard two pair audio cable such as Belden 8723.

Specifications:

Model:	PDA–102C/L/R/S
Rated supply voltage and frequency	230v AC @ 50/60Hz
Rated power consumption	20W
Maximum r.m.s. output current	2.1A
Maximum peak output current	2.8A
Maximum r.m.s. load voltage	5.5V
Total harmonic distortion	<0.1%
Maximum area of a square loop	49m² (7m x 7m)
Recommended loop conductor size	0.5mm² @ <35metres loop length or 1.0mm² @ >35metres to <50metres loop length (inc. tails)
Recommended number of turns	1
Frequency response –3dB	120Hz ~ 5kHz as per IEC 60118-4
Input signal level	Mic: -50dBV Unbalanced, Outreach: -10dBV balanced (referenced to full output 1kHz sine wave into 1Ω load with controls at max.)
Input impedance	Mic: 1kΩ; Outreach: 20kΩ
Microphone phantom power	9v DC
Signal to noise ratio	-62dB
AGC Ratio	2:1
Amplifier mode	True Current Mode
Control & indicator labels / functions	Green Power LED, Red Limit LED, Red Peak LED, Limit control, Drive control
Special features	Outreach plate connector allowing the connection of up 10 outreach plates
Connections	Mains - IEC Socket 230v 20W; Loop Output - 2 Way Push Terminal; Outreach – 4 Way Plugable screw terminal; Microphone – 3.5mm mono jack socket
Dimensions	136(W) x 56(H) x 175(D) mm
Weight	1.25kg

SigNET

DL50/K: Domestic Induction Loop System (50m² coverage)

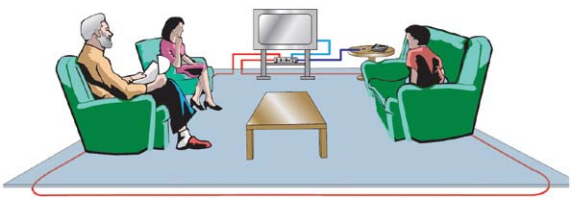
SigNET's DL50/K domestic loop amplifier kit includes everything you need to create a high quality stand-alone induction loop system for a bedroom, living room, TV lounge or study.

Carefully designed to sit discreetly alongside all types of audio-visual equipment, the amplifier features one set of phono inputs (for direct connection to television sets, etc), two microphone inputs and an alert input (for connection to fire alarms, doorbells, etc).

Screwdriver-adjustable drive, level, mix and tone controls are provided, allowing the system to be tailored to suit the exact requirements of any room, with installation further aided by the provision of a headphone socket, output current meter, input peak LED and an easy-to-follow installation guide.

Features:

- Kit includes:-
  1 x DL50 induction loop amplifier
  1 x Plug-top power supply
  1 x 33m reel of induction loop cable
  1 x SCART-to-double-phono audio lead
  1 x Microphone c/w mounting attachments
  1 x Microphone c/w mounting attachments
- Free-standing - ideal for bedrooms, living rooms, TV lounges, studies and other domestic applications
- Simple to adjust, tamper-resistant drive, level, tone and mic. priority controls
- Input peak, output current, signal present and power on LEDs
- Alert tone input for doorbells, fire alarms, security systems, etc.
- Attractively-designed amplifier provides max. square room coverage of 50m² (7m x 7m) or max. rectangular room coverage of up to 100m² (5 x 20 m) (Longer lengths of loop cable may be required for rectangular rooms)
- Headphone socket aids system set-up
- Connections provided for two 3.5mm electret microphones (one mic. is provided in the DL50/K kit) and one SCART-todouble-phono audio lead (other leads are available for purchase if required)
- Automatic compressor limiter
- Full 2Ω drive current capability for increased coverage at higher frequencies
- Fully compliant with EN60118-4 (formerly BS6083) and BS7594:1993



Typical DL50/K domestic TV lounge application

Specifications:

Model:	DL50/K
Type	Free standing, Plugtop mains lead supplied
Coverage	50m² approx.
Inputs:1kHz	2 x 3.5 mm microphone sockets, 1 x dual phono (line) socket, 1 x alert
Indicators	Input level; loop current meter; power on
Controls	Input level, loop drive, tone, microphone priority
Kit Content	DL50 amplifier, plug-top power supply, 33m of loop cable, SCART-to-double-phono lead, AMT microphone, 'AFILS fitted' sticker
Dimensions	185(W) x 40(H) x 85(D) mm
Weight	0.55kg

PDA200E: Wall-mounting Induction Loop Amplifier (120m² coverage)

The PDA200E has revolutionised the induction loop marketplace by bringing the ability to understand, install and appreciate the technology involved to a whole new client base.

Straightforward internal screw connectors and preset controls mean no specialist audio experience or audio connectors are required. By following the simple set-up procedure, no further adjustments are necessary, allowing a top quality assistive listening system for the hard of hearing to be set-up in its entirety by new and experienced installers alike.

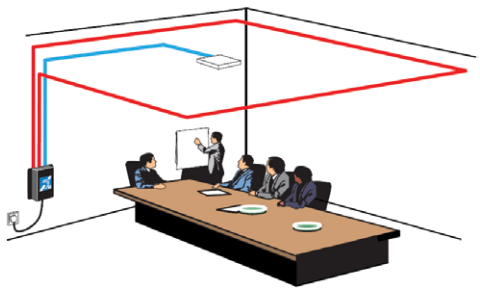
No less than four easy-to-access inputs are provided:

- Balanced/unbalanced mic (with phantom power for use with electret mics)
- Balanced/unbalanced line (for the connection of TV and other audio feeds)
- Alert tone switch (a tone generator for use with doorbells, fire alarms, etc)
- 100v line (for the connection of PA system audio feeds)

The amplifier's state-of-the-art current drive audio processing circuitry includes an automatic compressor/limiter which maintains the loop signal within a small dynamic range to improve intelligibility. Manual adjustments can also be made using the amplifier's internal tamperresistant drive, level and tone controls, allowing the system to be tailored to suit the exact requirements of any room.

Features:

- Ideal for meeting rooms, lecture theatres, churches, schools, TV lounges, shops and other small to medium sized applications
- Provides max. square room coverage of 120m² (11 x 11 m) or max. rectangular room coverage of 250m² (10 x 25 m)
- Straightforward internal screw connectors
- Wall mountable for permanent installation – ideal for schools and colleges where rooms are often left unsupervised
- Internal tamper-resistant drive, level and tone controls
- One balanced/unbalanced microphone input
- One balanced/unbalanced line level input
- Alert tone switch input for doorbells, fire alarms, security systems, etc
- 100v line input for PA system connection
- Fully automatic compressor-limiter
- Full 2Ω drive capability for increased coverage at higher frequencies
- Compatible with SigNET's unique 'outreach plate' input extension system
- Available in a variety of kit formats to suit a host of typical loop installations
- Fully compliant with EN60118-4 (formerly BS6083) and BS7594:1993



A typical PDA200E meeting/seminar room installation using items supplied in our AKM1 kit

Inputs:

Model:	PDA200E
Three 5mm screw connector inputs are available - mic., line & 100v. If more than one is used, the signals are mixed	
MICROPHONE	
Input impedance	600Ω balanced/unbalanced
Sensitivity	2 ~ 5mv (-46dB to -50dB)
Phantom	12v
LINE	
Input impedance	>10kΩ balanced/unbalanced
Sensitivity	0dBv (300mv rms to 1.5v rms)
100V LINE	
Input impedance	200kΩ
Sensitivity	+40dBv
ALERT	Closing a volt-free switch across this input generates a 2kHz tone through the loop.

Outputs:

Model:	PDA200E
Type	Current mode
Loop connector	Screw connector
Cable	1.0-2.5m²
Loop coverage (square room)	120m² max. (e.g. 11 x 11 m)
Loop coverage (rectangular room)	Up to 250m² when shortest side of loop is no greater than 10m (e.g. 10 x 25 m)
Loop drive current	4A peak; 1.8A average
Loop impedance	0.2 ~ 2Ω @ 1kHz

Specifications:

Model:	PDA200E
Mains voltage	230v AC
Power consumption	<80vA
Fuses	Internal mains input fuse 1A 20 mm (HRC)
Bandwidth	40Hz ~ 8kHz
Input dynamic range	36dB
Distortion	<0.5% THD
The PDA200E includes an amplitude compression stage that limits overload and has a dynamically variable ratio from 1:1 to10:1	
LED indicators	Input peak (limit); output drive (1,2,3 peak current); power on (power)
User controls	One level control, adjustable between -35dB to +0dB for both line and microphone One output drive control, giving a loop current adjustable between 40mA & 2.1A One mid-range cut & boost tone control (frequency = 1kHz; cut= -17dB: boost =+17dB)
Dimensions	273(W) x 200(H) x 77(D) mm
Weight	2.9kg

- **PDA200/2:** Professional Induction Loop Amplifier (200m² coverage)
- **PDA500/2:** Professional Induction Loop Amplifier (500m² coverage)
- **PDA1000/2:** Professional Induction Loop Amplifier (900m² coverage)

This professional range of current mode audio-frequency induction loop amplifiers offer outstanding sound quality at a competitive price.

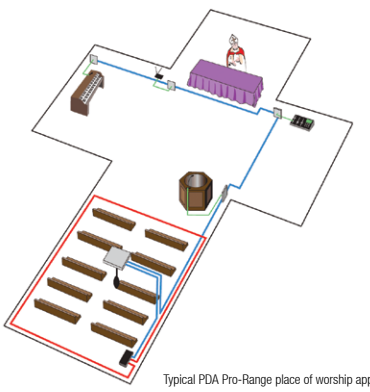
Each amplifier includes one balanced microphone input and one switchable balanced mic. or line level input, both of which will accept standard 3 pin XLR connectors. Optional 11v phantom power is also available on both inputs to allow the use of electret or condenser microphones.

By popular demand, each amplifier also features a four-way 'Outreach' input offering full compatibility with SigNET's unique Outreach Plate audio input extension system. This system allows the connection of up to 10 additional microphone or line level inputs via a range of specially designed single gang connector plates.

Other features include three level controls (one for each input), a loop drive control, an output current meter and a 'compression' activity display giving visible indication of the amplifier's compressor.

Features:

- Ideal for theatres, cinemas, churches, conference halls and other applications where top quality sound is a must
- Attractive free-standing design (optional wall and 19" rack-mounting kits available)
- Improved drive current capability provides up to 50% extra coverage
- Two XLR 3 pin input sockets - one balanced mic. and one switchable balanced mic./line
- Optional 11v phantom power available for electret or condenser microphones
- 'Outreach' input allows the connection of up to 10 additional mic. or line level inputs via a series of separately available single gang connector plates
- Adjustable level controls provided for all inputs - can be used individually or together as a three-input mixer
- Adjustable drive control allows the loop current to be adjusted to suit a room's individual characteristics
- Metal compensation control helps offset the frequency response problems associated with excessive metal in a building
- True output current meter
- Visible indication of the amplifier's compressor action via two LEDs
- 3.5mm headphone socket allows true monitoring of the output signal
- Advanced audio signal processing with automatic gain control
- On-board cooling fan on PDA500/2 and PDA1000/2 promotes stable operating temperature and increased reliability
- All models designed to meet or exceed the requirements of BS7594 and EN60118-4 when correctly installed



Typical PDA Pro-Range place of worship application

Pro–Range Amplifier	Max Sq. Room Coverage	Max 2:1 aspect ratio coverage
PDA200/2	200m²	240m²
PDA500/2	500m²	600m²
PDA1000/2	900m²	1100m²

Specifications:

Model:	PDA Pro Range
Type	Free-standing (optional wall or 2U 19" rack mount kits available); plugtop IEC mains lead provided
Coverage	200m² (PDA200/2); 500m² (PDA500/2); 900m² (PDA1000/2)
Inputs:1kHz	2 x XLR (one mic; one mic/line) and one outreach connector
Indicators	Loop drive meter; compression (high/low); power on
Controls	3 x input level controls, loop drive, metal compensation, on/off switch
Output type	Current mode
Loop connector	Four way binding posts
Recommended loop impedance	0.5 ~ 1Ω @ 1kHz. Will drive higher impedance loops with reduced area of coverage
Loop drive current @ 1Ω	PDA200/2: 6A, PDA500/2: 9A, PDA1000/2: 12A
Peak loop drive current (Measured over 5mS integration time)	PDA200/2: 8 Amps @ 1Ω, 13 Amps @ 0.5Ω, PDA500/2: 12 Amps @ 1Ω, 19 Amps @ 0.5Ω, PDA1000/2: 14 Amps @ 1Ω, 24 Amps @ 0.5Ω
Headphones	3.5mm jack socket allows monitoring of the loop signal via >32Ω headphones
Maximum area coverage	For a 400mA/M field strength ± 1dB PDA200/2 @ 6A max short term current: Square room = 200m²; Rectangular room (2:1 aspect ratio) = 240m² PDA500/2 @ 9A max short term current: Square room = 500m²; Rectangular room (2:1 aspect ratio) = 600m² PDA1000/2 @ 12A max short term current: Square room = 900m²; Rectangular room (2:1 aspect ratio) = 1100m²
Performance	Frequency response: 20Hz ~ 14 kHz + -3dB; Distortion: Less than 0.5%, S ~ N ratio: Better than –65dB any input
Metal Compensation	True 3dB/octave design counteracts frequency dependent absorption by metal in the proximity of the installation over a bandwidth of approximately 100Hz ~ 10kHz
Dimensions	380(W) x 80(H) x 220(D) mm
Weight	3.74kg (PDA200/2) / 3.46kg (PDA500/2) / 4.54kg (PDA1000/2)

FPROK: Fosmeter Induction Loop Test Kit

SigNET's new FPROK Fosmeter Pro induction loop test kit is designed to simplify the setup of an induction loop system and ensure its compliance with the latest version of BS EN 60118-4 (Magnetic field strength in audio-frequency induction loops for hearing aid purposes).

The kit includes the FPRO Fosmeter Pro induction loop tester (pictured right), an MP3 player c/w pre-loaded test tones and a set of headphones.

The Fosmeter Pro is a 400mA magnetic field strength meter and loop listener, complete with circuitry for measuring background noise, frequency response and metal compensation. It includes:

- A digital LCD display with a user-friendly interface to simplify testing
- Two 'soft' buttons which dynamically change their functions to suit the menu options being accessed
- Battery low indication and an auto-power off function that kicks in after 10 minutes of Fosmeter inactivity
- A 3.5mm headphone jack socket allowing users to listen to the loop signal using a set of HEAD1 headphones (supplied in FPROK kit)

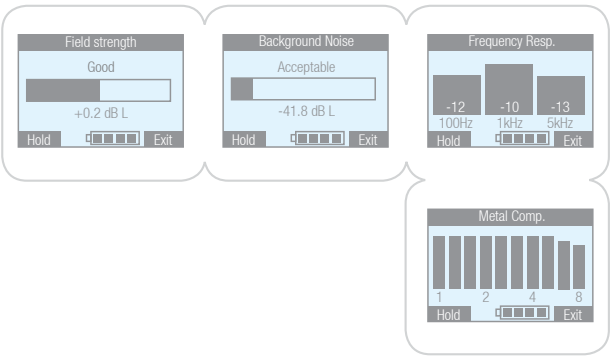
The unit is powered from a 9v PP3 battery (provided) and is supplied in a protective canvas carrying case.

One FPROK Kit (plus ancillaries such as MP3 player/amplifier connection leads) is all it takes to ensure your loop installations comply with current British Standards.

Test Menus:

The Fosmeter Pro's test results are typically shown on its LCD as shown right. A summary of these tests appears below:

- **Field Strength Test:** Detects a pulsed 1kHz signal in accordance with BS EN 60118-4, calibrated at 400mA/m = 0dB L.
- **Background Noise Test:** Advises if the signal is acceptable, tolerable or too high in accordance with BS EN 60118-4.
- **Frequency Response Test:** Detects 100Hz, 1kHz and 5kHz in accordance with BS EN 60118-4. All three frequency readings are displayed on the same screen allowing you tell at a glance if the setup is within the +/- 3dB L required by the standard.
- **Metal Compensation Test:** This test goes beyond the scope of BS EN 60118-4 but adheres to the 3rd octave frequency spectrum advised in the standard, measuring 1kHz through 8kHz. For use with amplifiers with metal compensation controls/functions such as the PDA200/2, 500/2 & 1000/2.
- **Subjective Listening Test:** This test is designed to ensure hearing aid users receive an undistorted and clear signal in the covered area and is performed using a set of headphones (supplied) plugged into the unit's headphone socket.



RXti2: Induction Loop Receiver

The RXti2 Induction Loop Receiver picks up audio signals from the loop through a pair of headphones (not supplied) and allows the signal quality to be assessed for testing purposes.

Designed to allow installers and the non hard of hearing to test and assess the quality and availability of a loop system. The RXTi2 may also be used in non hard of hearing applications such as multi-lingual translations, museum talk-through systems and stage talk-back systems.

Features:

- Soft start function
- 50Hz filter (to cut out mains hum pick up)
- Compact size
- 3.5mm headphone socket (for headset / earbud)
- Powered by 2 x AAA batteries

CAUTION: The audio output from the RXTi2 can exceed 100mW into 8Ω. This may cause hearing damage with long term exposure. Care should be taken not to use excessive volume when testing loop systems.

Outreach Plates: Audio Input Extension System

A range of wall, ceiling and desk mountable single gang audio input plates specifically designed to increase the audio input capability of any audio system. A total of six plates are available - one to suit virtually every conceivable variant of audio input connector - and each featuring a built-in mixer, pre-amp, input level control and balancing output.

Up to ten plates of any mix can be daisy-chained to one balanced line level input with cable lengths in excess of 100m easily achievable using standard two-pair audio cable (i.e. Belden 8723) with no recognisable degradation of audio signal quality.

All plates are surface mountable on 25mm single-gang back boxes and can be installed at the most convenient point on an installation, thus overcoming the need for long and potentially hazardous microphone/audio leads.

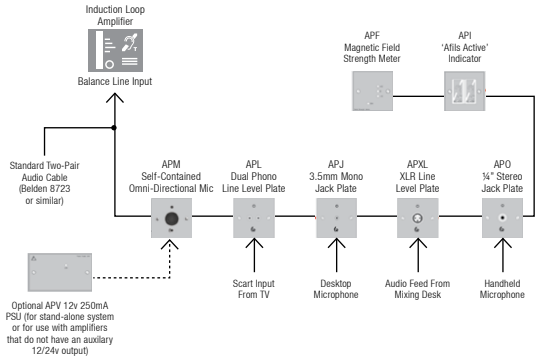
The system is ideal for conference centres, schools, leisure complexes, etc., where the need to have separate and spatially distributed audio inputs is a must.

An external DC power supply (Part No. APV) is available for stand-alone systems or for use with audio equipment that does not have a 12/24v auxiliary output.

Features:

- Can be connected to the balanced line level input of any audio system
- Fully cascadable – up to ten outreach plates can be daisy-chained to one balanced line level input
- Plates can be located at any convenient point on an installation
- Standard two-pair audio cable is ideal for most applications
- Network lengths of 100m easily achievable with no degradation of sound quality
- Built-in pre-amp, mixer and level controls included on all variants
- Overcomes the need for excessively long microphone and audio leads
- 12 ~ 32v DC operation
- +6dB overload capability
- Surface mountable on 25mm UK single gang back boxes
- Effectively acts as a multi-point distributed mixer with individual level controls
- Optional wall-mounting 'AFILS ACTIVE' and magnetic field strength indicators available for use with audio-frequency induction loop systems

A typical outreach plate system (shown connected to an audio-frequency induction loop amplifier)


Induction Loop Amplifier
Balance Line Input
APF Magnetic Field Strength Meter
API 'Afils Active' Indicator
Standard Two-Pair Audio Cable (Belden 8723 or similar)
APM Self-Contained Omni-Directional Mic
APL Dual Phono Line Level Plate
APJ 3.5mm Mono Jack Plate
APXL XLR Line Level Plate
APO ¼" Stereo Jack Plate
Scart Input From TV
Desktop Microphone
Audio Feed From Mixing Desk
Handheld Microphone
Optional APV 12v 250mA PSU (for stand-alone system or for use with amplifiers that do not have an auxiliary 12/24v output)

Power Requirements:

Supply volts	12 ~ 32v
Supply current	12 ~ 15mA

Common Specifications:

Common outreach plate characteristics between balanced line in and balanced line out	
Input - balanced/unbalanced line	1v (0dBv)
Output - balanced line	1v (0dBv) + 6dB (overload)
Frequency response	40Hz ~ 20kHz
Input impedence	>10KΩ
Output impedence	<100Ω
Insertion loss/gain	< ± 0.05dB
Insertion signal to noise ratio	>95dB
Insertion THD + noise	<0.01%

Individual Outreach Plate Specifications:

Model:	APJ Plate	APL Plate	APQ Plate
Input signal level	-50dBv (5mv mic)	-12dBv ~ +6dBv	-50dBv (5mv mic)
Gain	55dB	+6dB	55dB
Level control	0 ~ -46dB	-30dBv to +6dB	0 ~ -46dB
Input impedance	500Ω	>10kΩ	500Ω balance
Phantom volts	0, 8v (link select)	n/a	0, 8v (link select)
Signal to noise ratio	>75dB	>92dB	>75dB
THD + noise	<0.02%	<0.1%	<0.02%

Model:	APXM Plate	APXL Plate	APM Plate
Input signal level	-50dBv (5mv mic)	-12dBv to +6dBv	n/a
Gain	55dB	+6dB	55dB
Level control	0 ~ -46dB	-30dBv ~ +6dB	0 ~ -46dB
Input impedance	500Ω balanced	>10kΩ	n/a
Phantom volts	0, 8v (link select)	n/a	n/a
Signal to noise ratio	>75dB	>92dB	>75dB
THD + noise	<0.02%	<0.1%	<0.02%

System Overview

The system normally has two inputs per outreach plate - a balanced line level input from the previous outreach plate and its own adjustable input. These inputs are mixed in a way that ensures the input from the previous stage is virtually unaffected whilst generating a composite signal for the output in the form of a balanced line level signal.

As very low levels of insertion loss and signal-to noise ratios can be guaranteed and the inherent interference advantage of having balanced and floating line level inputs and outputs, very long lengths of interconnecting cable may be used without significantly degrading the signal.

This, coupled with the system's cascadability, allows the designer to effectively 'tailor make' a distributed multiple input mixer that is compatible with virtually any audio system.

The Outreach Plate range:

Up to ten of the following outreach plates (any mix) can be daisy-chained to an audio system's balanced line level input:

- **APJ:** 3.5mm Jack Outreach Plate

Accepts balanced or unbalanced microphones with 3.5mm mono jack plugs. Includes an onboard mic-to-line level converter, high gain pre-amplifier and 8v phantom power.

- **APL:** Dual Phono Line Level Outreach Plate

Accepts two line-level signals (usually from a stereo source such as a TV, CD, MP3 or DVD). Includes an on-board dual phono to mono converter. An ALS SCART to dual phono lead is also available to facilitate the connection of TVs, VCRs, etc, to the APL.

- **APQ:** ¼" Jack Outreach Plate

Accepts balanced or unbalanced microphones with 1/4" jack plugs. Includes an on-board mic-to-line level converter, high gain pre-amplifier and 8v phantom power.

- **APXM:** XLR Microphone Level Outreach Plate

Accepts balanced or unbalanced microphones with standard 3 pin female XLR connectors. Includes an on-board mic-to-line level converter, high gain pre-amplifier and 8v phantom power.

- **APXL:** XLR Line Level Outreach Plate

Accepts standard 3 pin female XLR feeds from audio equipment such as stage or church mixing desks, etc.

- **APM:** Omni-Directional Plated Mic Outreach Plate

A self-contained omni-directional electret microphone complete with on-board mic-to-line level converter. Ideal for mounting in ceilings, walls or desks, the unit offers excellent coverage (typically up to 25m^2 when located at a ceiling height of 2.5 ~ 3 m).

Ancillary Devices:

Should the Outreach network be connected to an induction loop system, any of the following ancillary devices can be added:

- **API:** 'AFILS Active' Outreach Plate

Includes two ultra-bright LEDs in a translucent diffuser overprinted with the induction loop 'ear' symbol. The LEDs illuminate when the outreach network is powered to indicate that an AFILS system is installed. Current consumption is 30mA max.

- **APF:** Field Strength Meter Outreach Plate

Indicates the magnetic field strength generated by an induction loop system via three LEDs, labelled +6dB, 0dB and –6dB. The LEDs illuminate as appropriate whenever a signal is present and can be easily set up to indicate the magnetic field strength in the room centre.

• **PL1/K1:** Portable Induction Loop System (1.2m² coverage)

With more than 10% of the population suffering from some kind of hearing impairment, the PL1 is the ideal portable device to ensure that your environment meets the standards laid out by the DDA.

The attractively designed PL1 can be used in schools, shops, nursing homes, leisure centres, hotels, banks, GP surgeries, reception desks as well as many other private, public or civil applications where there is no permanent loop facility installed.

Made from durable ABS plastic, the unit is lightweight and tough enough to be transported and an integral battery allows the unit to be used in most environments.

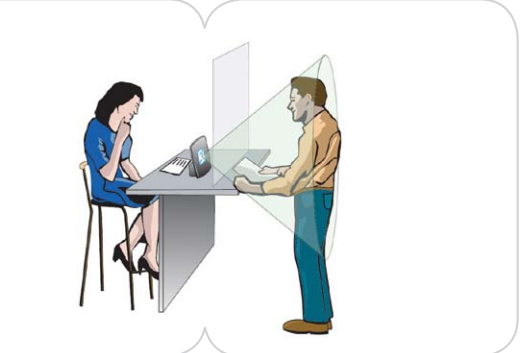
The unit will cover an area of 1 ~ 2 m² and uses an integral microphone to pick up speech and conversations, (however, an external microphone may be added if required). Built-in 'cut-off timer' automatically shuts down the system after 10, 30, 60 minutes if the unit is not being used, helping to maintain battery life for prolonged use.

Features:

- Ideal for restricted person-to-person contact in areas such as banks, post offices, small meeting rooms, reception desks, open plan offices and ticket booths
- Portable, lightweight design means the system can be moved easily from location to location
- Simple one button operation
- Integral high performance microphone
- Five years' expected battery life under normal operating/charging conditions
- Auto shut-off facility (user selectable for 10, 30 or 60 minutes) helps preserve battery life
- Unit can be used as normal whilst charging from the mains

Typical PL1/K1 meeting room application

Typical PL1/K1 counter / ticket booth application



Specifications:

Model:	PL1/K1
Type	Portable
Coverage	1.2m² approximately
Inputs	2 x mic (one built-in mic. and one 3.5mm remote mic socket for AMT or AMD mics)
Indicators	Power on; input level; charging required; charging in progress, audio warning of imminent shutdown
Controls	On/off button; adjust auto-shut off timer
Dimensions	250(W) x 100(H) x 300(D) mm
Weight	1.7kg (including battery)

IL-PL20: Portable Induction Loop System (1.2m² coverage)

The Contacta Portable Induction Loop System has been designed specifically to aid communication with people with hearing difficulties who wear a hearing aid featuring a 'T' facility. The system consists of two components; the main unit, stylishly constructed from robust ABS plastic, and a plug-in power adaptor.

It incorporates a rechargeable battery system to maintain performance at its peak and will give a minimum of 8 hours use. The battery life is monitored at all times using standby mode, incorporating a two colour display to show battery status. The display also shows that the unit is operational as it flashes in conjunction with any sounds present.

The unit is fully operational at all times and may still be used when recharging becomes necessary. An in-built socket allows for expansion using optional boundary microphones, etc. The IL-PL20 Portable Induction Loop is easy to carry and can be easily set up for use in a matter of seconds.

Features:

- Simple, stylish, robust design
- Lightweight and easy to carry
- In-built microphone and rechargeable battery
- Provides a minimum of 8 hours usage
- Battery status & operation LED display
- Microphone input for optional expansion boundary microphone
- Set-up for use in a matter of seconds

Soft Carry Case: **IL–PL25**
Rigid Carry Case: **IL–PL24**

Storage Shelf: **IL–PL26**

Specifications:

Model:	IL–PL20
Internal Microphone	Electret
Connections: Auxiliary Microphone Power	 2.5mm Jack plug 2.1mm Jack plug
Controls: Power On	Rocker switch
Output Voltage	12v DC
Battery Life	8 hours (min)
Dimensions	275(W) x 250(H) x 110(D) mm
Weight	1.6kg (including battery)

IL-PL21: External Boundary Microphone

Only for use with the IL-PL20 InfoLoop and IL-CL10 Clipboard Loop, this microphone features a notch filter for use when magnetic security fields are present.

contacta

IL-CL10: Clipboard Portable Induction Loop (1.2m² coverage)

Designed for highly discreet communication with those with hearing difficulties who wear a hearing aid featuring the 'T' facility.

Ideal for small group and one-to-one applications such as schools, colleges and training rooms, as well as interviews, doctors surgeries, customer service counters in retail, banking and public buildings.

Made from high impact ABS the unit is lightweight and includes internal battery (lasts up to 8 hours on a single charge), microphone and LED indicators which show if the unit is active or needs recharging.

Features:

- Simple, very discreet, robust design
- Lightweight and easy to carry
- In-built microphone and rechargeable battery
- Battery status & operation LED
- Microphone input for optional expansion boundary microphone (Part No. IL-PL21)
- Set-up for use in a matter of seconds

Specifications:

Model:	IL–CL10
Integral Microphone	Electret
Connections: Auxiliary Microphone Power	 2.5mm Jack plug 2.1mm Jack plug
Controls: Power On	Rocker switch
Output Voltage	12v DC
Battery Life	28 hours (max)
Dimensions	230(W) x 320(H) x 40(D) mm
Weight	1.02kg (including battery)

- **STS-K001L:** SecuriCom Thru' Glass Speech Transfer System - Bridge Bar with Loop
- **STS-K002L:** SecuriCom Thru' Glass Speech Transfer System - Surface Mount with Loop
- **STS-K003L:** SecuriCom Thru' Glass Speech Transfer System - Flush Mount with Loop

Contacta SecuriCom™ systems enable clear voice communication between customers and service staff through glass security screens. Transactions can therefore be conducted efficiently and confidentially – without difficulty or delay – even in noisy environments. So business throughput and profitability can be maximised – and customer goodwill enhanced.

Every SecuriCom™ system uses the most advanced electronic circuitry. Its purpose-designed speaker and microphone modules ensure superb voice reproduction and reliable performance – year after year. Fitting is very straightforward, whether as part of a new build project or into existing counter facilities. Each system is stand-alone and individually plugged into the mains supply.

In use, it is hands-free for both staff and customer and is designed to remain 'ON' continuously during service hours. Communication is fully 'duplex', so there is no clipping of speech.

To provide communication assistance for users of hearing aids, any SecuriCom™ installation can be integrated with an Induction Loop system. This will aid compliance with the Disability Discrimination Act 1995.

Typical Applications:

- Banks and building societies
- Benefit agencies
- Booking offices
- Bureaux de change
- Consulates and embassies
- Petrol stations
- High security environments
- Hospitals and clinics
- Passport offices
- Police stations
- Post offices
- Prisons and detention centres
- Reception counters
- Specialist vehicle applications
- Stations and airports
- Theatre information and sales kiosks

...and many more

Features:

- For use in noisy environments which require communication privacy
- Proximity microphones on both 'staff' and 'customer' side of screen
- Optimal voice pick-up with minimum background noise
- Easy installation: particularly suitable for retro-fitting

STS-K001L

STS-K002L

Specifications:

Model:	STS–K001L / STS–K002L / STS–K003L
Coverage	Up to 1.2m²
Operating Current	1A
Speaker Impedance	4, 8Ω
Field Strength	Conforms to BS 6803 Pt14:1981
Quiescent Current	>50mA
Harmonic Distortion	Typically >0.02%
Power Requirement	Audio Amplifier -12v DC

Need help choosing the right product?
Call our technical support team now on:
Tel. +44(0)115 977 0075

Christchurch Council Chambers

Christchurch Council Chambers in Dorset now benefits from greater clarity and flexibility during meetings, thanks to a fully-integrated Clockaudio wireless conference system designed and built by the CIE-Group in-house technical services team. The 40U rack features 14 x Clockaudio CW9000R UHF receivers, InterM QD amplifiers & EQs and induction loop systems, together with integrated charging stations for the 14 CW9005T wireless boundary microphones.

High Specification 19” Enclosures	194
Standard 19” Enclosures	195
Extra Deep 19” Enclosures	195
Accessories	195 ~ 200
Power Distribution Units	201 ~ 203
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HT Series: High Specification 19" Rack Enclosures

Hi-tech Series of 19" enclosures, supplied in self assembly (flat pack) format for ease of transportation and storage.

Manufactured in 2mm plate steel, the units are sturdy and robust when assembled, with enclosures finished in RAL7035 (light grey) to blend into any environment.

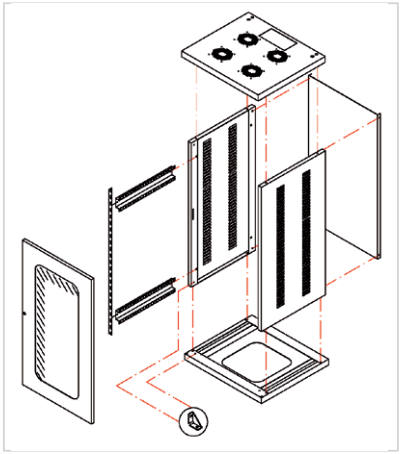
Adjustable 19" profiles in both the front and rear of the enclosure allow flexibility for fitting equipment of various sizes into the housing.

A locking glazed door is also supplied to stop any unauthorised access to the enclosure contents. Further standard features include height adjustable feet, steel rear panel, removable access plate in bottom of enclosure and venting in the sides and top panels to assist with equipment cooling.

A full range of accessories is available (see pages 196 ~ 200).

Features:

- Self assembly (flatpack)
- High quality manufacture
- Adjustable 19" profiles (front & rear)
- Locking glazed door
- Adjustable feet
- Cable access via bottom plate
- Venting
- Stable when assembled
- 5 sizes available



Hi-tech rack cabinet, self-assembly kit, composed of:

- one base (L:595/D:525mm) with cable access (300 x 300 mm) and 4 attachments with M10 thread
- one roof (L:595/D:525mm) with cable access (200 x 100 mm), provided to install up to 4 fans
- two sides with vent slots
- one rear cover panel
- one lockable steel door with plexiglass panel, which can be hung either left or right handed as desired (2 x keys)
- four "omega"-section bars for adjustment in depth of vertical rack strips;
- four "L"-section vertical 19" rack strips
- four 90° fixing squares
- four adjustable levelling feet
- set of mounting hardware
- assembly instructions

Specifications:

Model:	01511	01512	01513	01514	01515
Usable Height	12U	18U	22U	36U	40U
Master Pack	A: 0.057m³, 22kg B: 0.035m³, 18kg	A: 0.057m³, 22kg B: 0.055m³, 26.8kg	A: 0.057m³, 23kg B: 0.068m³, 31.3kg	A: 0.057m³, 24kg B: 0.071m³, 20kg C: 0.072m³, 21.6kg	A: 0.057m³, 24kg B: 0.072m³, 27kg C: 0.071m³, 24.5kg
Mounting Height	532mm	800mm	978mm	1600mm	1778mm
External Height	616mm	884mm	1062mm	1684mm	1862mm
Internal Depth	450mm (max)	450mm (max)	450mm (max)	450mm (max)	450mm (max)
External Depth	525mm	525mm	525mm	525mm	525mm
Weight	37.6kg	46.5kg	53.3kg	60.9kg	70.8kg

LP Series: Standard 19" Rack Enclosures

Euromet's cost-effective range of 19" enclosures, supplied in self-assembly (flat pack) format for ease of transportation and storage.

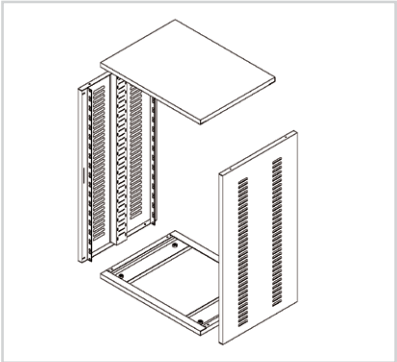
Manufactured in 2mm plate steel, the units are sturdy and robust when assembled and are finished in RAL9005 matt black. Fixed 19" profiles are standard in the front and back of the enclosure.

Other features include height adjustable feet and louvred venting and removable vented rear panel to assist with cooling of the installed equipment.

A full range of accessories is available (see pages 196 ~ 200).

Features:

- Self-assembly (flat pack)
- High quality manufacture
- Adjustable feet
- Venting
- Removable rear panel
- Available in 5 different sizes
- Stable construction
- Optional glazed door (supplied as option, see below)



Specifications:

Model:	01226	01227	01228	01229	01230
Usable Height	8U	12U	18U	22U	26U
Master Pack	0.036m³, 20kg	0.04m³, 23.50kg	0.059m³, 28kg	0.059m³, 31.5kg	0.064m³, 33kg
External Height*	400mm	578mm	843mm	1022mm	1200mm
Internal Depth**	435mm	435mm	435mm	435mm	435mm
External Depth	500mm	500mm	500mm	500mm	500mm
Weight	11.2kg	22.6kg	26.8kg	30.3kg	31.7kg

*External height dimensions without wheels or feet

**When used with the Inter-M range of products the optional door will not fit to the front of the enclosure without the removal of the equipment's mounting handles.

Extra Deep 19" Rack Enclosures

Featuring extra deep internal useable depth (535 mm as opposed to the standard 435mm) the 19" Enclosures provide greater flexibility and space for work / equipment.

In addition, if required the 12U and 18U units can be 'stacked' to make a 30U Enclosure.

Specifications:

Model:	05370	05371
Useable Height	12U	18U
External Height	578mm	846mm
Internal Depth	535mm	535mm
External Depth	640mm	640mm

Enclosure Door Options

Lockable plexiglass doors, supplied with 2 keys and matt nickel-plated hinges with a maximum of 170° opening.

Specifications:

Model:	00540:	00541:	00542:	00543:	00544:
Master Pack Weight	1.7kg	2.68kg	3.7kg	4.59kg	5.25kg
Height	350mm	524mm	790mm	970mm	1150mm
Width	500mm	500mm	500mm	500mm	500mm
Weight	1.2kg	2.08kg	2.9kg	3.74kg	4.25kg

00536: 1U Rack Shelf

Rack shelf manufactured from steel plate (1.5 mm), finished RAL 9005, 1U, for accomodation of non-19" mounting equipment.

*Max load 40kg using this accessory:

Pair of horizontal equipment supports:
00565

Specifications:

Model:	00536
Thickness	1.5mm
Materials	Steel
Net Weight	2.2kg
Max Load	20kg *

01911: 2U Rack Shelf

Rack shelf manufactured from steel plate (1.5 mm), finished RAL 9005, 2U, for accomodation of non-19" mounting equipment.

*Max load 40kg using this accessory:

Pair of horizontal equipment supports:
00565

Specifications:

Model:	01911
Thickness	1.5mm
Materials	Steel
Net Weight	2.35kg
Max Load	20kg *

01912: 2U Lockable Rack Drawer

Lockable rack drawer manufactured from steel plate (1.5/2 mm) with telescopic slides, finished RAL 9005, 2U, for accomodation of tools, handbooks and small spare parts. Comes with two keys.

Specifications:

Model:	01912
Thickness	1.5/2mm
Materials	Steel
Net Weight	6kg
Max Load	20kg

EU/R-P1: 1U Rack Front Cover Panel

Front rack cover panel, 1U, made of aluminium (2mm), finished RAL9005, for blanking off unused sections.

Specifications:

Model:	EU/R–P1
Thickness	2mm
Materials	Aluminium
Colour	RAL 9005
Weight	0.15kg

EU/R-P2: 2U Rack Front Cover Panel

Front rack cover panel, 2U, made of aluminium (2mm), finished RAL9005, for blanking off unused sections.

Specifications:

Model:	EU/R–P2
Thickness	2mm
Materials	Aluminium
Colour	RAL 9005
Weight	0.27kg

EU/R-P3: 3U Rack Front Cover Panel

Front rack cover panel, 3U, made of aluminium (2mm), finished RAL9005, for blanking off unused sections.

Specifications:

Model:	EU/R–P3
Thickness	2mm
Materials	Aluminium
Colour	RAL 9005
Weight	0.39kg

EU/R-P4: 4U Rack Front Cover Panel

Front rack cover panel, 4U, made of aluminium (2mm), finished RAL9005, for blanking off unused sections.

Specifications:

Model:	EU/R–P4
Thickness	2mm
Materials	Aluminium
Colour	RAL 9005
Weight	0.53 kg

00618: 1U Rack Front Ventilation Panel

Front panel, 1U, in aluminium (2 mm), finished RAL 9005, punched for ventilation.

Specifications:

Model:	00618
Thickness	2mm
Materials	Aluminium
Colour	RAL 9005
Net Weight	0.14kg

02014: 1U Rack Front Security Panel

Front panel, 1U, made of steel plate (1.2 mm), finished RAL 9005, punched, for protection of projecting equipment.

Specifications:

Model:	02014
Thickness	1.2mm
Materials	Aluminium
Colour	RAL 9005
Net Weight	0.35kg

02015: 2U Rack Front Security Panel

Front panel, 2U, made of steel plate (1.2 mm), finished RAL 9005, punched, for protection of projecting equipment.

Specifications:

Model:	02015
Thickness	1.2mm
Materials	Aluminium
Colour	RAL 9005
Net Weight	0.48kg

02012: 1U Plexiglass Security Rack Cover

Front panel, 1U, made of steel plate (1.2 mm), finished RAL 9005, with plexiglass window, to protect equipment. Avoids unauthorised access.

Specifications:

Model:	02012
Thickness	1.2mm
Materials	Steel
Colour	RAL 9005
Net Weight	0.41kg

02013: 2U Plexiglass Security Rack Cover

Front panel, 2U, made of steel plate (1.2 mm), finished RAL 9005, with plexiglass window, to protect equipment. Avoids unauthorised access.

Specifications:

Model:	02013
Thickness	1.2mm
Materials	Steel
Colour	RAL 9005
Net Weight	0.59kg

Hi-Tech Rack Upright Supports

Additional pair of 'omega'-section 19" rack strips with fixing holes, finished RAL7035. Permits fixing in different positions in depth on 'omega'-section horizontal strips.

Guarantees additional support for heavyweight equipment.

Specifications:

Model:	Hi–Tech Rack Upright Supports
Link With	Rack Series hi-tech
Thickness	2mm
Materials	Steel
Colour	RAL 7035

Specifications:

Model	Usable Height	Item	Net Weight	Height
01841	12U	Pair Rack Hi-Tech Upright 12U, RAL7035	1.4kg	532mm
01842	18U	Pair Rack Hi-Tech Upright 18U, RAL7035	2.1kg	800mm
01843	22U	Pair Rack Hi-Tech Upright 22U, RAL7035	2.6kg	978mm
01844	36U	Pair Rack Hi-Tech Upright 36U, RAL7035	4.2kg	1600mm
01845	40U	Pair Rack Hi-Tech Upright 40U, RAL7035	4.7kg	1778mm

02021: Non-Lockable Rack Wheels

Specifications:

Model:	02021
Net Weight	0.24kg
Max Load	50kg

02020: Lockable Rack Wheels

Specifications:

Model:	02020
Net Weight	0.24kg
Max Load	50kg

00565: Pair of Equipment Support Brackets

Pair of brackets made of steel plate (2mm), galvanized.

These bars guarantee an additional support of heavyweight equipment. Fixed by coupling on 'omega'-section uprights.

Specifications:

Model:	00565
Thickness	2mm
Materials	Steel
Treatments	Galvanization - Zincatura 8005
Net Weight	0.056kg

- **PDUA-MH1023-0801:**
  8 Port Monitored PDU - 10A
- **PDUA-MH1623-0801:**
  8 Port Monitored PDU - 16A

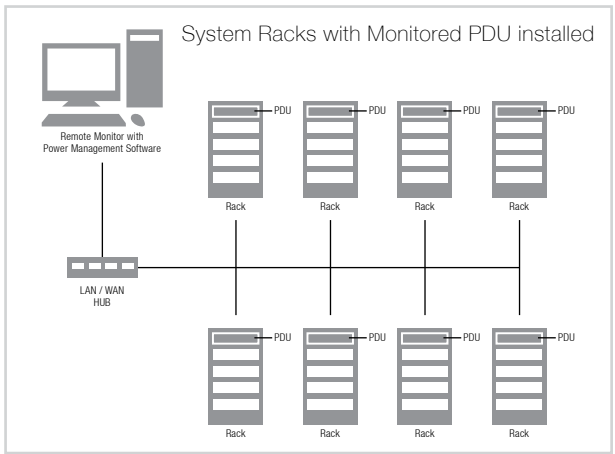
This monitored Power Distribution Unit provides live current consumption monitoring to its built-in current meter and remotely via web interface.

When current consumption exceeds the pre-set threshold, the monitored PDU will send email alerts or 'trap' network notifications and isolate the PDU to prevent damage to the system.

Free Power Management Software is bundled in with the PDU, displaying power consumption and event data and allowing control of power conditioning.

Features:

- Built-in web server for real-time monitoring of current consumption
- Built-in true RMS current meter
- Audible alarm should power consumption exceed set threshold
- Email alert sent to remote monitor and powertrip, should power consumption exceed set threshold
- Built-in circuit breaker
- Only 1U high and suitable for rack mounting



Specifications:

Model:	PDUA–MH1023–0801	PDUA–MH1623–0801
Number of Ports	8	8
Capacity	10A	16A
Input Voltage	230v	230v
Output Socket	IEC	IEC
Interface	RJ45: Ethernet for connecting to PC	
Frequency	50/60HZ full range	
LED indicator	Yellow LED x 1 (Current Meter), Green LED x 1 (IP Address)	
Alarm	Warning: 1 beeps per second Overload: 3 beeps per second Circuit Breaker: triggered - continuously beeps	
Meter	3 Digital Meter x 1 Range: 0A ~ 20A (true RMS) Resolution: 0.1A Precision: +/- 0.1 AMP	
Operating Temperatures	0 ~ 40°C	
Storage Temperatures	-25 ~ 65°C	
Humidity	0 ~ 90%	
Height	44mm (1u)	

DataBay

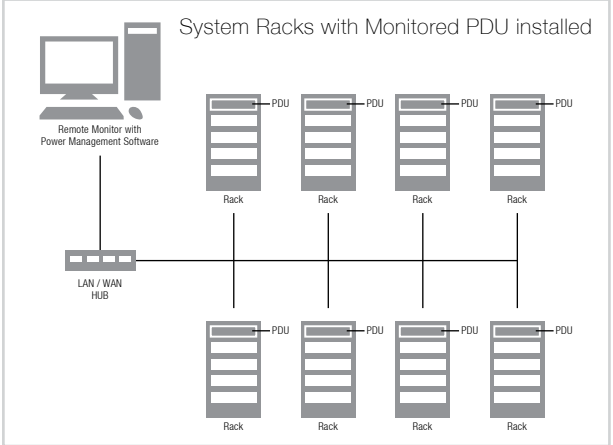
PDUA-PH1623-0801:
8 Port Per-Outlet Monitoring PDU

This intelligent power management unit provides live current consumption monitoring per power outlet port, reporting directly to the unit's built-in current meter and remotely via web interface.

When current consumption of any individual power port exceeds the pre-set threshold, the POM PDU will send an email alert to the remote monitor (such as a computer, tablet, etc) and will isolate the individual outlet port to protect the system.

Features:

- Per-outlet port consumption monitoring
- Built-in web server for real-time monitoring of current consumption
- Built-in true RMS current meter
- Audible alarm (should power consumption exceed set threshold)
- Email alert sent to remote monitor and power trips (should power consumption exceed set threshold)
- Real time, remote on/off power control of each unit
- Built-in circuit breaker
- SNMP support
- Outlet and circuit status LED indicators
- Supports power-up sequence
- Only 1U high and suitable for rack mounting



Specifications:

Model:	PDUA–PH1623–0801
Number of Ports	8
Capacity	16A
Input Socket	1/EC 320 C20
Output Socket	8/EC 320 C13
Power Cord	1/EC 320 C19 to C20, 3 metres
Circuit Breaker	1/16 Amp
Nominal Voltage	160 ~ 320v
Voltage	230v
Frequency	47, 63Hz full range
Temperature	-5 ~ 45°C
Humidity	0 ~ 90%
Conformance	FCC, CE, Ready for the UL
Meter	RJ-45 for Ethernet / Supports up to 8 PDUs via RJ-11 / 1RJ-11 for temperature/humidity detection / Reset for Hardware reset / 3Digits + 1Digit / Warning and Overload: 1 beep in 1 second/3 beeps in 1 second / Range: 0A ~ 20A (true RMS) / Resolution: 0.1A / Precision: /-2% +/-0.1 AMP / 1 digital for POM PDU identifcation
LED Indicator	Yellow LED: SSL is enabled Green LED: IP address Red LED: POM PDU connecting status
Dimensions	160(W) x 432(H) x 44(D) mm
Weight	6kg

- **PDUA-SH1623-0801:**
  8 Port SNMP Switched POM PDU with Current Meter (horizontal)
- **PDUA-SV1623-1601:**
  16 Port SNMP Switched POM PDU with Current Meter (vertical)
- **PDUA-SH3223-2403:**
  24 Port SNMP Switched POM PDU with Current Meter (vertical)

The DataBay SNMP switched PDUs provide remote power management solutions which allow I.T. administrators to monitor servers and network devices should any power consumption issues arise.

These units allow remote and on-site power monitoring through event alerts by email, 'TRAP' (network notifications) and audible alarm.

Each unit's built-in digital current meter will indicate the total power consumption of each power strip. Using the software supplied, these units also provide remote on/off switching functionality.

Features:

- Integrated web server manages real time current consumption of PDU
- Built-in true RMS current meter
- Easy set up, meter display IP address
- Audible Alarm - 2 separate warning audible signals for threshold warning and overload
- Email and SNMP traps sent when power exceeds warning threshold or overload threshold
- Free utility software for managing multiple PDUs
- Circuit breaker power protection
- Low profile, slim design makes it easy to mount in server cabinets
- Real time, remote on/off power control of each unit
- LED on each unit to indicate power status
- Power-on sequencing to avoid in-rush of power

Specifications:

Model:	PDUA–SH1623–0801	PDUA–SV1623–1601	PDUA–SV3223–2403
Number of Ports	8	16	24
Input Voltage	230v	230v	230v
Capacity	16A	16A	32A
Breakers	1CB	1CB	3CB
Interface	RJ45 for Ethernet		
Frequency	50 ~ 60Hz full range		
LED Indicator	Yellow LED: SSL is enabled / Green LED: IP address		
Audible	Warning: 1 beep per second Overload: 3 beeps per second Circuit Breaker: triggered-continuous beeps		
Meter	3 Digitals Warning and overload - Meter will flash once per second Range: 0A ~ 20A (true RMS) Resolution: 0A ~ 20A: 0.1A Precision: 0.A ~ 20A: +/- 2% +/-0.1 Amp		
Operating Temperature	0 ~ 40°C		
Storage Temperature	-25 ~ 65°C		
Humidity	0 ~ 90%		

Dedicated Rack Design & Build Facility

For many years, CIE-Group customers have also benefited from our comprehensive Audio Rack System Design & Build Service, to provide 'ready to install' PA, VA and AV Racks in some of the UK's largest and most successful installations.

Using our extensive portfolio of professional audio products, our highly skilled, UK-based Technical Services have a reputation for consistently producing some of the UK's highest quality, ready-to-install PA rack systems to customers' specifications.

There is no set limit to the size of system we can produce; anything from a small single zone speech-only system, to a multi-zone system combining speech and music. Monitoring and battery back-up can also be accommodated by our in-house Technical Services Facility.

To ensure that we build your system to your specific requirements, we have produced a technical questionnaire which, once completed by yourselves or with our assistance, outlines requirements such as number of zones, music sources, number of microphones, etc.

Each system is supplied assembled, wired and fully tested before leaving our workshops. As part of the Build Package, each System is supplied with a comprehensive operations manual incorporating user instructions for each individual piece of equipment, a schematic drawing of the System, a visual of the Rack layout and easy to use connection details. Finally, each System is given a unique identification number specific to your installation which allows our Technical Services Team to easily identify any system we have assembled, to efficiently assist with any after sales service requirements.

Call the CIE-Group sales desk or your area representative on +44 (0)115 9770075 for advice, free UK site surveys and a highly competitive quotation.

Loudspeaker Brackets	206 ~ 207
Loudspeaker Tripod Stands	208
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Projector Brackets	214 ~ 217
Projector Tripod Stand	218

euromet

SB10: Low-Cost Loudspeaker Bracket

Low cost loudspeaker wall mounting bracket with 50 ~ 70 mm fixing centres.

Specifications:

Model:	SB10
Tilt	15° up/down, pan/swivel: 90°
Maximum load weight	5kg
Weight	0.1kg

01463: Utility Swivel Loudspeaker Bracket

Wall-mounting bracket with wall plate (118 x 30 x 4 mm) and speaker fixing plate (111 x 40 x 4 mm). This assembly swivels in the horizontal plane and may also be tilted.

Lockable in optimum position by fixing the swivel nut.

Specifications:

Model:	01463
Material	Steel
Mount Rotates	180°
Maximum Load	5kg
Weight	0.55kg

01936: Loudspeaker Bracket

Wall-mounting bracket with wall plate (30 x 40 x 3 mm) and speaker fixing plate (30 x 50 x 3 mm). This assembly swivels in the horizontal plane and may also be tilted.

Lockable in optimum position by fixing the swivel nut.

Specifications:

Model:	01936
Material	Steel
Mount Rotates	180°
Maximum Load	5kg
Weight	0.15kg

CIE-Group recommend that safety cables are fitted with all wall-mounted loudspeaker brackets.

Local regulations may be in force in certain areas concerning the safe fixing of objects in public areas.

Specifications:

Model:	03279	03280	03281	03284	03518
Description	Safety Wire	Safety Wire	Safety Wire	Safety Wire	Security Clip
Gauge	3mm	3mm	3mm	1.5mm	-
Length	200mm	400mm	600mm	600mm	-
Supports	50kg	50kg	50kg	50kg	30kg

00479: Medium Duty Speaker Bracket

Wall-mounting bracket featuring speaker fixing plate with 6 holes.

Specifications:

Model:	00479
Material	Steel
Mount Rotates	360°
Maximum Load	10kg
Weight	0.8kg

00498: Adjustable Heavy Duty Speaker Bracket

Adjustable wall-mounting bracket with arm L=260 mm and male attachment H=120mm, 35(Ø) mm to hold speaker. The arm, with an adjustable support to clamp the speaker, swivels in the horizontal plane and may also be tilted.

Position of support from the centre of male attachment min. 180mm, max. 260 mm. Wall plate 250 x 140 mm with 4 holes 10(Ø) mm to fix bracket.

Specifications:

Model:	00498
Material	Steel
Mount Rotates	120°
Female Attachment Dimensions	36(Ø)mm
Male Attachment Dimensions	35(Ø)mm
Maximum Load	40kg
Weight	2.3kg

03433: Speaker Bracket with Rotational Adjustment

Adjustable wall-mounting bracket with 320 mm long arm and male attachment (120(L) mm x 35(Ø) mm). Features progressive inclination of 4° through a nylon wheel joint.

Specifications:

Model:	03433
Material	Steel
Mount Rotates	120°
Male Attachment Dimensions	35(Ø)mm
Maximum Load	40 kg
Weight	2.1kg

euromet

03180: Tripod Speaker Stand

Floor-standing with tripod legs and full aluminium structure. The 03180 features solid centre pole and extra strength bracketed supports ensuring no breakage through twist or bend.

Height adjustable and lockable using nylon fixing clamp. Tripod legs can be fully closed for minimum space requirement during transportation.

Finished in black.

Specifications:

Model:	03180
Material	Aluminium
Female Attachment Dimensions	36(Ø)mm
Male Attachment Dimensions	35(Ø)mm
Footprint Diameter	1000mm
Closed Length	1255mm
Min/Max. Height	1305 ~ 2250 mm
Maximum Load	40kg
Weight	3.4kg

00564: Tripod Loudspeaker Stand

Aluminium tripod stand with adjustable height using a nylon fixing clamp. Comes with nylon flange with holes and slots for mounting of speaker.

Fully closing tripod legs assist in space reduction during transit.

Specifications:

Model:	00564
Material	Aluminium
Female Attachment Dimensions	26(Ø)mm
Male Attachment Dimensions	25(Ø)mm
Footprint Diameter	880mm
Closed Length	950mm
Min/Max. Height	1090 ~ 1830 mm
Maximum Load	15kg
Weight	1.6kg

04754: LCD/TFT Monitor Wall Bracket - White

Adjustable monitor wall bracket, nylon made. Plate 120 x 120 x 4 mm, 4 holes 4.5(Ø) mm distance 75 and 100mm, 4.5(Ø) mm (Standard Vesa).

The monitor is tiltable (± 25°) working on the central part of the swivel, fixable by its spanner which is supplied with the bracket. Wall plate 95(Ø) mm with 2 holes 4.5(Ø) mm, to fix bracket.

This support is fixable with all LCD/TFT monitors.

Specifications:

Model:	04754
Tilt Angle	50°
Materials	Nylon Base/Steel VESA Plate
Treatment	RAL 9010 White
Thickness	4mm
Closed Length	105mm
Max Load	5kg
Net Weight	0.98kg

04929: LCD/TFT Monitor Wall Bracket - Black

Adjustable monitor wall bracket, nylon made. Plate 120 x 120 x 4 mm, 4 holes 4.5(Ø) mm distance 75 and 100 mm, 4.5(Ø) mm (Standard Vesa).

The monitor is tiltable (± 25°) working on the central part of the swivel, fixable by its spanner which is supplied with the bracket. Wall plate 95(Ø) mm with 2 holes 4.5(Ø) mm, to fix bracket.

This support is fixable with all LCD/TFT monitors.

Specifications:

Model:	04929
Tilt Angle	50°
Materials	Nylon Base/Steel VESA Plate
Treatment	RAL 9005 Black
Thickness	4mm
Closed Length	105mm
Max Load	5kg
Net Weight	0.98kg

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04681: LCD/TFT Monitor Wall Bracket - White

Adjustable monitor wall bracket, steel made. Plate 120 x 120 x 3 mm, 4 holes 4.5(Ø) mm distance 75 and 100 mm, 4.5(Ø) mm (Standard Vesa).

The monitor is tiltable (± 25°) working on the central part of the swivel, fixable by its spanner which is supplied with the bracket. Wall plate 95(Ø) mm with 2 holes 4.5(Ø) mm, to fix bracket.

This support is fixable with all TFT monitors.

Specifications:

Model:	04681
Tilt Angle	50°
Materials	Steel
Treatment	RAL 7035
Thickness	3mm
Closed Length	105mm
Max Load	15kg
Net Weight	1.77kg

05199: LCD/TFT Monitor Wall Bracket - Black

Adjustable monitor wall bracket, steel made. Plate 120 x 120 x 3 mm, 4 holes 4.5(Ø) mm distance 75 and 100 mm, 4.5(Ø) mm (Standard Vesa).

The monitor is tiltable (± 25°) working on the central part of the swivel, fixable by its spanner which is supplied with the bracket. Wall plate 95(Ø) mm with 2 holes 4.5(Ø) mm, to fix bracket.

This support is fixable with all TFT monitors.

Specifications:

Model:	05199
Tilt Angle	50°
Materials	Steel
Treatment	RAL 9005
Thickness	4mm
Closed Length	105mm
Max Load	15kg
Net Weight	1.77kg

- **BF2750:** Low-cost Display Screen Mount (Flat to Wall)

Features:

- For screen sizes of 13" ~ 27"
- Integrated spirit level bubble
- Two-piece lockable design
- Maximum load weight: 25kg
- Aluminium allow construction

- **BT2750:** Low-cost Display Screen Mount (Adjustable)

Features:

- For screen sizes of 13" ~ 27"
- 15° up/down, 90° pan rotation
- Integrated spirit level bubble
- Two-piece lockable design
- Maximum load weight: 20kg
- Aluminium allow construction

- **BF7510:** Low-cost Large Display Screen Mount (Flat to Wall)

Features:

- For screen sizes of 27" ~ 75"
- Integrated spirit level bubble
- Expandable wall plate
- Maximum load weight: 90kg
- Steel construction

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08000: LCD/Plasma Screen Floor Stand

This stand allows you to mount monitors with fittings with a 284 ~ 700 mm horizontal pitch and 80 ~ 480 mm vertical pitch.

The base has four arms for feet or castor installation.

Specifications:

Model:	08000
Link With	H290 ~ 760 V 85 ~ 480
Materials	Steel
Treatment	Anthracite
Closed Length	700(W) x 1820(H) x 700(D) mm
Max Load	50kg
Net Weight	22.5kg

07500: LCD/Plasma Screen Floor Stand

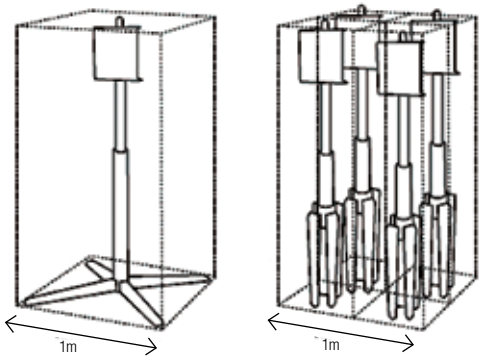
Features:

- For monitors 35" ~ 50"
- Height adjustable from 1250 ~ 1650 mm, measured from floor to the media line of the monitor
- Designed so that the floor supports can be replaced with wheels, upon request
- Ideal for rental arrangements
- The folding legs of the base reduce the bulk of the support
- Can include a shelf for recording or decoder equipment

Available for mounts measuring:

- 200 x 200 mm
- 200 x 100 mm
- 120 x 150 mm
- 150 x 150 mm
- 100 x 100 mm
- 75 x 75 mm

Optional shelf: **07900**



Specifications:

Model:	07500
Closed Length	160(W) x 1950(H) x 160(D) mm
Max Dimension	1000(W) x 1950(H) x 1000(D) mm
Max Load	50kg
Ship Weight	17kg

08100: LCD/Plasma Screen Floor Stand with Wheels

This stand allows you to mount screens with VESA fittings 75 x 75, 100 x 100, or 200 x 100 mm.

The base can easily go through doorways and the four castors can be hidden.

Specifications:

Model:	08100
Link With	VESA Fino a 200 x 200
Mount Rotates	360°
Tilt Angle	0°
Materials	Steel
Treatment	Anthracite
Footprint Diameter	1000mm
Min/Max Height	1120 ~ 1520 mm
Closed Length	870(W) x 1250(H) x 520(D) mm
Max Load	30kg
Net Weight	17.5kg

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- **P100L:** Low-cost Projector Ceiling Mount Bracket

Features:

- Adjustable tilt, 360° rotation and integrated cable management
- Maximum load weight: 15kg
- Aluminium alloy construction

- **04382:** Universal Projector Ceiling Mount Bracket - Silver
- **04325:** Universal Projector Ceiling Mount Bracket - Black

Universal ceiling mount bracket, adjustable for dia/video-projectors, steel made, with arm L150 mm.

It is tiltable in vertical (+-25°) and in the horizontal plane (360°) working on the central part (H40 mm) of the assembly swivel. It can be fixed by its spanner which is supplied with the bracket.

The support will be fixed to the ceiling by a plate 160(Ø) mm with 38 mm holes and 3 buttonholes grant a very quick inspection for maintenance. To apply the Dia-Video to the support, you have to use 4 arms of different dimensions (78, 138, 168mm).

Specifications:

Model:	04382 / 04325
Mount Rotates	360°
Tilt Angle	50°
Materials	Steel
Thickness	1.5, 4mm
Closed Length	250mm
Max Load	10kg
Net Weight	2.20kg

04326: Telescopic Universal Projector Ceiling Mount Bracket - Black (400~600mm)

Ceiling mount bracket, adjustable for dia/video-projectors, steel made, with arm L:400~600mm. It is tiltable in vertical (±25°) and in the horizontal plane (360°) working on the central part (h40mm) of the assembly swivel. It can be fixed by its spanner which is supplied with the bracket.

The support will be fixed to the ceiling by a plate 160(Ø) mm with 38 mm holes and 3 buttonholes grant a very quick inspection for maintenance. To apply the Dia-Video to the support, use 4 arms of different dimensions (78, 138, 168mm).

Specifications:

Model:	04326
Mount Rotates	360°
Tilt Angle	50°
Max Monitor Size	No Limits
Materials	Steel
Treatment	Anthracite
Thickness	1.2, 4mm
Min/Max Height	400 ~ 600 mm
Closed Length	415mm
Max Load	10kg
Net Weight	2.60kg

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- **04934:** Telescopic Universal Projector Ceiling Mount Bracket - Black (780~1100mm)
- **05399:** Telescopic Universal Projector Ceiling Mount Bracket - Silver (780~1100mm)

Universal ceiling mount bracket, adjustable for dia/video-projectors, steel made, with arm L: 780 ~ 1100 mm. There are two holes D: 65 x 30 mm to enable the passage of the cables included VGA.

It's tiltable in the vertical (±25°) and in the horizontal plane (360°) working on the central part (H 40mm) of the assembly swivel. It can be fixed by its spanner which is supplied with the bracket. The support will be fixed to the ceiling by a plate 200(Ø) mm with 3 holes of 8mm, and 3 buttonholes grant a very quick inspection for maintenance.

To apply the Dia-Video to the support, you have to use 4 arms of different dimensions (78, 138, 168mm).

Specifications:

Model:	04934 / 05399
Mount Rotates	360°
Tilt Angle	50°
Max Monitor Size	No Limits
Materials	Steel
Treatment	Anthracite
Thickness	1.5, 2mm
Min/Max Height	780 ~ 1100 mm
Closed Length	780mm
Max Load	10kg
Net Weight	3.90kg

04327: Universal Projector Wall Mount Bracket - Black

Wall mount bracket, adjustable for dia/video-projectors, steel made, with arm L: 350mm.

It is tiltable in vertical (±25°) and in the horizontal plane (360°) working on the central part (H 40mm) of the assembly swivel. It can be fixed by its spanner which is supplied with the bracket. The support will be fixed to the ceiling by a plate 160(Ø) mm with 3 8mm holes, and 3 buttonholes grant a very quick inspection for maintenance.

To apply the Dia-Video to the support, you have to use 4 arms of different dimensions (78, 138, 168mm).

05054: Universal Projector Wall Mount Bracket - Silver

Wall mount bracket, adjustable for dia/video-projectors, steel made, with arm L: 350mm.

It is tiltable in vertical (±25°) and in the horizontal plane (360°) working on the central part (H 40mm) of the assembly swivel. It can be fixed by its spanner which is supplied with the bracket. The support will be fixed to the ceiling by a plate 160(Ø) mm with 3 8mm holes, and 3 buttonholes grant a very quick inspection for maintenance.

To apply the Dia-Video to the support, you have to use 4 arms of different dimensions (78, 138, 168mm).

Specifications:

Model:	04327	05054
Mount Rotates	360°	360°
Tilt Angle	50°	50°
Materials	Steel	Steel
Treatment	Anthracite	Silver
Thickness	1.5, 4mm	1.5, 4mm
Min/Max Height	1040 ~ 1850 mm	1040 ~ 1850 mm
Closed Length	415mm	415mm
Max Load	10kg	10kg
Net Weight	2.70kg	2.70kg

05322: Projector Floor Stand with Tripod Legs

Dia/Video adjustable steel and aluminium floor stand. Thanks to the new tilting system it is possible to tilt the steel plate working on the knob.

The steel plate is: 415 x 355 x 2 mm in order to prevent the equipment from falling down, we placed a small tube structure that gives a very nice design and utility. The height of the stand is adjustable from 1040 ~ 1850 mm working directly on it.

To facilitate transport and to save space the top plate section can be separated.

Specifications:

Model:	05322
Mount Rotates	360°
Tilt Angle	±12°
Materials	Aluminium
Footprint Diameter	1000mm
Thickness	1.5mm tubes
Min/Max Height	1040 ~ 1850 mm
Closed Length	1000mm
Max Load	10kg
Net Weight	6.75kg

Digital Interactive Pen	220
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Windows and Apple Mac Compatible

• **Duo-Pen:** Digital Interactive Pen

The DuoPen digital pen is an innovative USB input device which can convert any ordinary laptop or desktop computer monitor into a fully interactive touch screen device.

Using DuoPen you can enhance and improve the potential of your computer/PC's capabilities.

DuoPen adds the ability to operate the PC mouse facilities via the screen, incorporates handwriting and drawing options and is ideal as an interactive interface for design and gaming options.

Simple to install, the DuoPen immediately upgrades the PC/Laptop to provide full interactive functionality by using a combination of ultrasonic waves and infrared to plot or recognise the pen's location on the screen.

Features:

- Allows you to write directly onto the screen
- Enables full touchscreen functionality for use with an ordinary notebook/PC
- Note-taking function allows users to write on a normal piece of paper which is clipped into the receiver station and saved directly into your notebook/PC for later use
- Precise and fine writing ability with DuoPen's patented technology and Microsoft Ink Library
- Hover mode function which enables it to operate in free space, for smooth writing and gaming applications
- Virtual writing means no actual pressure is placed on the screen. Used for drawing delicate pictures and using air brush effects
- Word recognition supported on Windows Vista Premium and higher (including Windows 7) or by installing software from CD or internet free downloads
- Gesture (motion) recognition (also known as 'pen flicks'), allows the user to execute various pre-defined functions easily when using internet, e-mail or selected software
- Carry bag supplied with spare pen and fibre nib tips. Fibre nibs supplied for use on plastic LCD or LED screens.
- Real ball-point pen tip and electronic pen tip also included

converts your standard laptop/PC to a wireless touchscreen tablet!

Specifications:

Model:	Duo–Pen
Operating Area	170mm ~ 358mm
Power Source	5v DC (USB) / LR41 cell batteries
Technology	Ultrasonic and Infrared
Sampling Rate	Over 70Hz
Device Standard	HID pen device
Operating Temp/humidity	0 ~ 40°C / 20 ~ 80% Humidity
System Requirements:	
CPU	1GHz Pentium compatible
RAM	Over 512MB
OS	Windows XP / VISTA / Windows 7
Interface	USB port / CD-ROM driver

- **U-Board:** 'Carry-anywhere' Virtual Interactive System
- **U-Board/Wireless:** Wireless 'Carry-anywhere' Virtual Interactive System

Our new UBoard system provides the ultimate in 'retrospective Virtual Interactive Systems': converting any conventional projector into a high performance virtual interactive board solution.

Stylish, simple to set-up and extremely portable, UBoard consists of a small magnetic-mount System Controller/Transmitter and UBoard EPen.

By mounting the UBoard Controller/Transmitter onto the edge of any conventional dry-wipe board - or simply onto any clear, light coloured wall - any flat surface can be immediately transformed into a fully-interactive working/teaching space; providing an advanced interactive software drawing/annotation package plus full control of any standard software installed on your computer.

Performance, functionality and incredible interactive features in this 'go-anywhere' pocket-sized solution!...

Features:

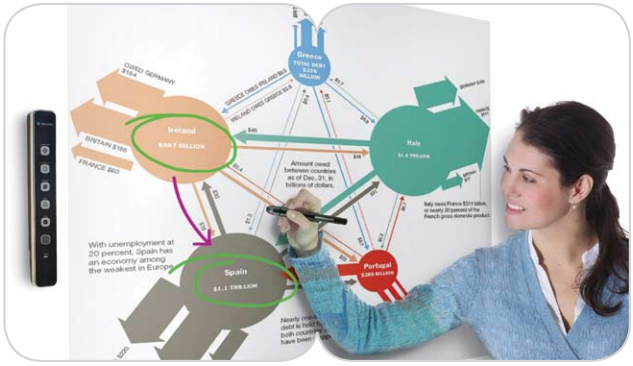
- High performance
- Dedicated ASIC chipset
- Fast response time
- High resolution
- Ultra smooth response

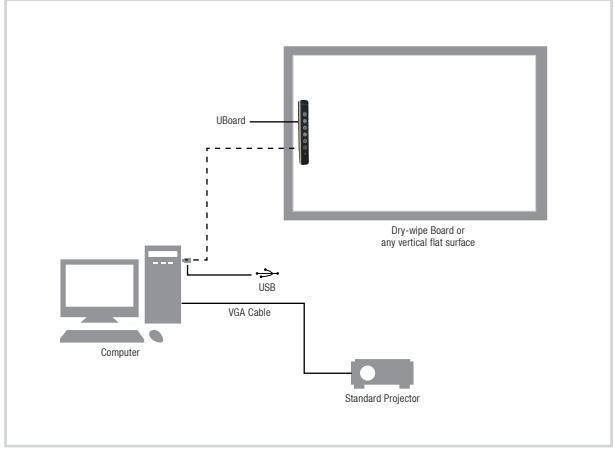
Best Writing Quality:

- Smooth writing touch and feel
- Virtual Pressure Brush effects without programming
- State-of-art noise filtering

Excellent Usability:

- 120" working area
- Slim, distinctive & stylish design
- Wireless connectivity
- High portability
- Rechargeable Battery
- No software installation
- Integrated Laser Pointer
- 100% Microsoft & Apple compatibility





Specifications:

Model:	UBoard: Station
Effective Working Area	120 Inches
USB Device Class	Microsoft HID Pen
Sampling Frequency	40kHz
Power	USB 5v/100mA
Dimension	30(W) x 17(H) x 22(L) mm

Model:	UBoard: Digital Pen
Power	3.7v/180AH
Battery	Rechargeable Lithiumpolymer battery
Rechargeable terminal	3.5mm jack
Button	Right & Left Mouseclick
Battery monitoring	2 step LED Indicator
Full recharging time	2 hours
Continuous Operating time	15 hours
Power saving mode	Activating automatic power saving logic after 20 sec idle time
USB recharging cable	70cm
Active Laser pointer	Attachable to the digital pen / Shares power with the digital Pen

Model:	UBoard: Interface
Computer	IBM PC Compatible
CPU	Intel Pentium or Above Inter Compatible Type
Interface	USB 2.0 full speed or USB 1.1
Operating System	Windows XP/Vista/7/Apple Mac
RAM Minimum	1Gb

Model:	UBoard: Environment and Software
Humidity	0 ~ 90RH +35°C (non condensing)
Recommended operating temperature	15° ~ 40°C

Clever Little Box.

- **PVI2600:** ProVue Interactive Projector
- **PVI2500SP:** ProVue Ultra Short Throw Interactive Projector

Our new Pro-Vue Interactive projectors provide a whole new dimension to interactive teaching and presentation; all the benefits of an interactive whiteboard... without the whiteboard!

The Pro-Vue features integrated infrared technology which means that virtually any surface can be used as an interactive screen!

From a conventional dry-wipe whiteboard, to retractable tripod screens - or simply walls, ceilings or even floors! - any surface can be used as a fully interactive screen. In addition, the size of your interactive 'screen' is only limited to the space available (imagine how big the screen could be using a simple, clear wall in the school hall?).

... And your interactive projector is fully portable. Easily stored/transported in a lightweight canvas bag, Pro-Vue Interactive can be taken anywhere your interactive presentation needs to go; whether it be room-to-room, city-to-city or even international travel (try transporting conventional interactive whiteboard setup on your next flight!)

Features:

- Available as Standard and new Ultra Short Throw versions
- High brightness: 2600 ANSI Lumens
- Supplied with both E-Pen & extendable E-Wand tools
- Easy installation & maintenance even when ceiling mounted:
  - Built-in auto detector sensor
  - Side change filter
  - Side change lamp
- Integrated security features:
  - Electric pin lock
  - Metal anchor lock
- Image freeze
- 4 x digital zoom
- 7 display modes
- 8W audio speaker
- Quiet (33dB at ECO-mode)
- Multi-language on-screen display
- RJ45 LAN remote control (optional)
- User definable start-up screen (logo capture)
- Low power consumption
- 6 auto functions: search, sync, ceiling, keystone, filter & lamp alert
- Superb quality images

Specifications:

Model:	PVI2600	PVI2500SP
Speaker	Mono 8W x 1	
Power Requirement	100v AC ~ 240v, 50/60Hz	
Power Consumption	Max 285W, Standby < 2.6W	310W
Standard Accessories	E-Wand, E-Pen, Remote Control, Canvas Carry Case, Driver CD-Rom, 1.5M USB Cable, User Manual	
Dimensions	325(W) x 97(H) x 260(D) mm	360(W) x 132(H) x 348(D) mm
Weight	3.4kg	4.1kg

Optical		
Projection System	3LCD technology	
Brightness	2600 lumens	2500 lumens
Contrast Ratio	500:1	500:1
Resolution	Native: XGA (1024 x 768) Maximum: UXGA (1600 x 1200) Aperture ratio: 4:3 native / 16:9 compatible	
Projection Lens	PVi2600: 1.2X zoom lens, f = 18.53 ~ 22.18 mm F/1.65 ~ F/1.93	
Lamp	200W UHP	210W UHP
Fan Noise	33dB @ ECO	
Throw Distance	1.11 ~ 10.57 m (approx. 100" at 2.88M)	0.636 ~ 1.26 m
Throw Ratio	1.41 ~ 1.7	0.63

Interactive Functions	
Light emitted	Infrared
CMOS Camera	Built into projector
Power Requirement	E-Pen - 2 x AAA Batteries E-Wand - 2 x AA Batteries
E-Wand Extendable Length	620 ~ 920 mm

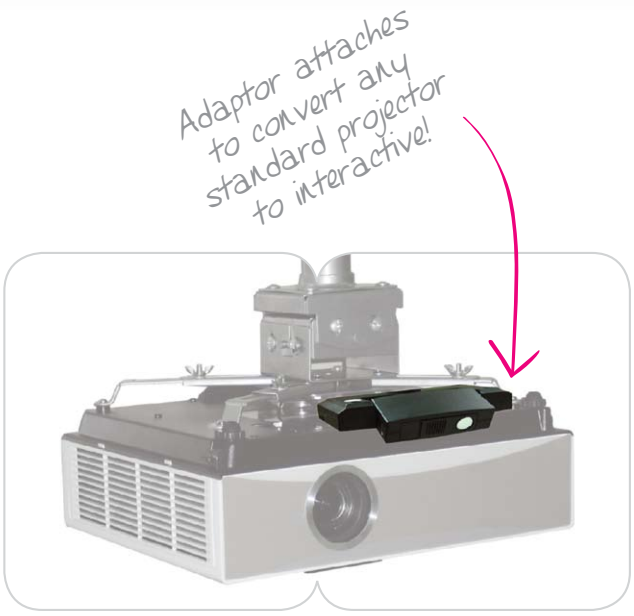
• **PVI14V:** ProVue Interactive Adaptor

This cost-saving 'Adaptor-only' version of ProVue Interactive allows any existing standard projector to be simply and effectively converted to an interactive projector, allowing almost any surface (such as walls, dry-wipe boards, curtains, ceilings or floors!) to be used as a virtual, fully interactive screen!

In addition, the size of your virtual interactive screen is only limited to the space available and positioning of your projector (imagine how big the screen could be using a simple, clear wall in the school assembly hall?).

Features:

- Converts your standard projector to interactive
- No whiteboard required
- Supplied with both E-Pen and extendable E-Wand control tools
- Ceiling mount, USB connection cable and software supplied
- Powered from USB interface connection
- Flexible positioning of unit



Specifications:

Model:	PVI14V
Interactive Technology	Infrared
Sensor Accuracy	±6 pixels
Throw Ratio	1.4
Screen Size	Up to 120 inch screen diagonal
Included Standard Accessories	E-Pen, extendable E-Wand, USB cable, mounting bracket, Quick Start Guide, Light Pen II Software
Power Consumption	<0.5W (powered from USB interface cable)
Dimensions	110(W) x 20(H) x 80(D)mm
Weight	0.8kg
Interactive Functions	
Light emitted	Infrared
CMOS Camera	Built into adaptor
Power Requirement	Adaptor via USB connection, E-Pen - 2 x AAA Batteries, E-Wand - 2 x AA Batteries
E-Wand Extendable Length	620 ~ 920 mm
System Requirements	
OS Required	Microsoft, Windows 98/2000/XP/Vista/Macintosh
Processor Type	Intel Pentium or above
RAM Size	128Mb (256Mb or above recommended)
Minimum Hard Drive Space	30Mb CD-Rom Driver & available USB 2.0 port

Clever Little Box.

• **WI-VIEW300V:** Projector-to-Wireless Converter

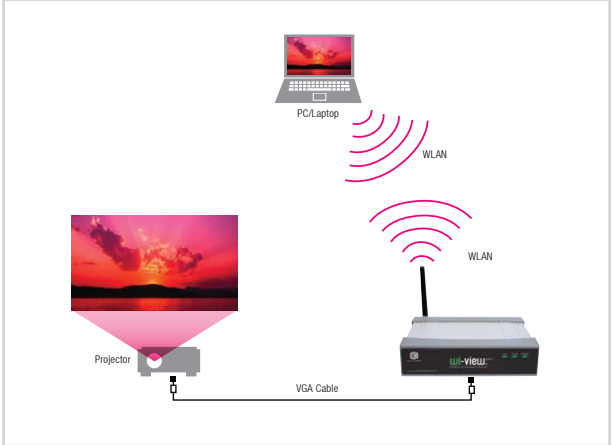
The Wi-View 300V VGA Wireless Converter is an easy-installation unit which converts your standard VGA projector (or VGA screen, etc) to a wire-free device, allowing users to easily connect via their PC/laptop's wireless LAN facility.

With plug-and-play of the Wi-View hardware to the projector and simple, secure access software from the PC/laptop; fast, easy and wirefree presentation in the classroom/conference room is immediately available.

Supporting multi-user switching, any member of a conference/class can easily log into the Wi-View Server, switching their individual computer screen to the projector without moving computers or reconnecting cables.

Features:

- Fast, simple wireless presentation; no more cable swapping or trailing leads!
- Compatible with all projectors and screens featuring a VGA input
- Supports output resolution up to 1280x768 with 24 bit colour
- No installation CD required; software is directly downloaded from the Wi-View device
- Web-based user interface for easy configuration
- Conference control function, allowing host/chairperson to control multiple users during meetings
- Up to 128 (max) users in conference mode
- Also features standard Wireless LAN access point function



Specifications:

Model:	Wi–View300V
Wireless Standards	IEEE 802.11g
LAN Standards	IEEE 802.3u
Data Rate	Wireless: up to 54Mbps LAN: 10/100 Mbps with auto MDI/MDIX
Protocol	TCP/IP
IP Configuration	Automatic: DHCP Manual: static IP address
Security	IEEE Standard 64/128 bit WEP
Antenna	Detachable antenna with SMA connector
Transmission Power	2dBi external dipole antenna
Receiving Sensitivity	– 65dBm @ 54Mbps – 80dBm @ 11Mbps at 10-5 BER
Wireless Link Coverage	Up to 300 feet/100m (dependant on environment)
Video Streaming	MPEG1/2/4, HD Video Support
Supported Video Format	MPEG1/MPEG2/MPEG4(DivX, Xvid)/WMV9
Supported PC/NB Resolution Colour Depth	16/32 bit colour depth
Supported PC/NB Resolution	SVGA (800x600), XGA (1024x768), WXGA (1280x768)
Supported Output Resolution	SVGA (800x600). XGA (1024x768), WXGA (1280x768)
Supported Operation System	Windows Vista/XP/2003/2000
Power	5v DC, 2.5A
Interfaces	15-pin VGA, RJ-45, Power switch, Reset button, Stereo phono jack, Audio output
Dimensions	117(W) x 27(H) x 140(D) mm
Weight	0.28kg

Projection Screens

Features:

- Full 7 year warranty!
- Aesthetically pleasing aluminium extruded case
- Brackets (reversible) can be mounted anywhere along the case for easy installation
- Quiet motor
- Compact tensioned
- Tabs are cut out of surface to prevent marking or coming off
- Flat tab-tensioned surface

Manual Projection Screens: Rollerwall

Fibre Glass Matt White Surface, housed in a new design white square steel case. Four mounting points on each endcap ensure the screen can be firmly fixed to the wall or ceiling.

New robust design, 3cm black borders to all sides, (4cm on 244cm wide screens). 25cm additional black leader on 16/9 and 16/10 formats.

Model Dimensions:

Model	Format	Diag	VA: cm
105050	1/1	50" Diag	127 x 127 cm
106060	1/1	60" Diag	152 x 152 cm
107070	1/1	70" Diag	180 x 180 cm
108484	1/1	84" Diag	213 x 213 cm
109696	1/1	95" Diag	244 x 244 cm
1075D	4/3	75" Diag	152 x 114 cm
1089D	4/3	89" Diag	180 x 135 cm
10100D	4/3	100" Diag	203 x 152 cm
10120D	4/3	120" Diag	244 x 183 cm
1082D	16/9	82" Diag	180 x 101 cm
1092D	16/9	92" Diag	203 x 114 cm
10110D	16/9	110" Diag	244 x 137 cm
1084D	16/10	84" Diag	180 x 113 cm
1094D	16/10	94" Diag	203 x 127 cm
10113D	16/10	113" Diag	244 x 153 cm

• **Electric Projection Screens:** Small - Non Tensioned, F-Type Electric c/w IR Control

This Mid Range Electric Screen with Fibre Glass Matt White Surface and a Tubular motor with limit switches, housed in a new design Matt White shaped steel case.

Sliding rear brackets with quick attach fixings assist easy fixed to the wall or ceiling. 3cm black borders to all sides, (4cm on 244cm wide screens). 25cm additional black leader on 16/9 and 16/10 formats. Supplied with IR control unit.

Model Dimensions:

Model	Format	Diag	Overall size: cm
5084D	4/3	84" Diag	171 x 128 cm
50100D	4/3	100" Diag	203 x 152 cm
50120D	4/3	120" Diag	244 x 183 cm
50150D	4/3	150" Diag	305 x 229 cm
5077D	16/9	77" Diag	171 x 96 cm
5092D	16/9	92" Diag	203 x 114 cm
50110D	16/9	110" Diag	244 x 137 cm
50138D	16/9	138" Diag	305 x 172 cm
5079D	16/10	79" Diag	180 x 101 cm
5094D	16/10	94" Diag	203 x 114 cm
50113D	16/10	113" Diag	244 x 137 cm
50142D	16/10	142" Diag	305 x 191 cm

• **Electric Projection Screens:** Small - Non Tensioned, Compact

High quality electric screen with quiet motor, ideal for small to medium rooms. Equipped with sliding brackets.

A wide choice of fabrics, standard is Matt White (Gain 1.2). Options for Lumi Grey, Cinesound and Rear Plus - call for pricing. 4/3, 16/10 versions come with 5cm black borders.

Custom sizes available.

Model Dimensions:

Model	Format	VA: cm
COM160X160	1/1	160 x 160 cm
COM180X180	1/1	180 x 180 cm
COM200X200	1/1	200 x 200 cm
COM250X250	1/1	250 x 250 cm
COM160X120/4BB	4/3	160 x 120 cm
COM180X135/4BB	4/3	180 x 135 cm
COM200X150/4BB	4/3	200 x 150 cm
COM220X165/4BB	4/3	220 x 165 cm
COM250X190/4BB	4/3	250 x 190 cm
COM300X225/4BB	4/3	300 x 225 cm
COM160X100/4BB	16/10	160 x 100 cm
COM180X113/4BB	16/10	180 x 113 cm
COM200X125/4BB	16/10	200 x 125 cm
COM220X138/4BB	16/10	220 x 138 cm
COM250X156/4BB	16/10	250 x 156 cm
COM300X188/4BB	16/10	300 x 188 cm

For Lumi Grey surface add 5% to the trade price, for Rear Plus fabric add 10%, for Microperforated add 35%

- **TS-15R:** 15” Touch Screen Display
- **TS-17R:** 17” Touch Screen Display

Stylish 15” and 17” touch screen displays with superb touch panel sensitivity and long-term durability built to last in demanding point-of-sale environments. The units provide durable touch screen functionality and feature highly accurate 5-wire resistive touch technology.

Their slim design demands less space than competing touch screen displays, and the VESA compliant design makes for easy mounting in a variety of environments.

Specially designed for use in point-of-sale systems, information kiosks, museum displays and other high-traffic public environments.

Features:

- Scratch resistant touch panel
- 5-wire resistive touch technology
- Sharp contrast ratio
- High brightness
- Lifetime 30 million finger-touch hits
- Dual serial touch interface
- Auto-adjustment for optimal settings
- Kensington security socket
- VESA compliant for wall/arm mounting

Specifications:

Model:	TS–15R	TS–17R
Panel Type	TFT LCD	TFT LCD
Panel Size	15.0” (381 mm)	17.0” (432 mm)
Max. Resolution	XGA 1024 x 768	SXGA 1280 x 1024
Pixel Pitch	0.297 mm	0.264 mm
Brightness	250 cd/m2 (Typical)	300 cd/m2 (Typical)
Contrast Ratio	700:1 (Typical)	800:1 (Typical)
Surface Treatments	Hard Coating (3H), Anti-glare Treatment	
Viewing Angle (H/V)	130°/120° (Typical)	160°/160° (Typical)
Display Colour	16.2M	16.2M
Response Time	4ms (GTG)	4ms (GTG)
Panel Life Time	50,000hrs (Minimum)	50,000hrs (Minimum)
Frequency (H/V)	H: 30kHz ~ 60 kHz V: 56Hz ~ 75Hz	H: 30kHz ~ 80kHz V: 56Hz ~ 75Hz
Max. Pixel Clock	80MHz	140MHz
Input: Touch Interface Analogue Digital	8-Pin Mini Dim 15-Pin D-Sub -	8-Pin Mini Dim 15-Pin D-Sub 24-Pin DVI-D
Power: AC-DC Adaptor Power Consumption	External AC 100 ~ 240v, 50 ~ 60Hz < 36W (On) < 2W (Stand-by) < 1W (Off)	External AC 100 - 240v, 50 ~ 60Hz < 42W (On) < 2W (Stand-by) < 1W (Off)
Touch Screen: Technology Optical Transmission Positional Accuracy Panel Resolution Active Force Panel Interface Glass Thickness Life Performance	 5-wire Resistive > 80% < 2% of true position 1024 x 1024 5.1 ~ 8.16 gw Dual RS-232/USB interface 0.0787/2.0 mm 35million touches at single point	 5-wire Resistive > 80% < 1% Deviation Error 1024 x 1024 < 300g Dual RS-232/USB interface 2.1 mm 35 million hits (finger)
Plug & Play: VESA	DCC 2B	DCC 2B ; DCC/CI
Operating Conditions: Temperature Humidity	 0 °C ~ 40 °C 10% ~ 90%	 0 °C ~ 40 °C 10% ~ 90%
Storage Conditions: Temperature Humidity	 -20 °C ~ 60 °C 5% ~ 95%	 -20 °C ~ 60 °C 5% ~ 95%
Mounting: VESA FPMPMI	Yes (100 mm)	Yes (100 mm)
Tilt	5° ~ 25° (+10° when bracket hooked)	
Dimensions:	386(W) x 360(H) x 169(D) mm	436(W) x 427(H) x 200(D) mm
Product Weight	4.6kg	7.5kg
Accessories Supplied	Quick Guide, CD ROM (user manual and touch screen drivers), 15-Pin D-Sub cable, power cord, power adaptor, RS-232 cable and USB cable	Quick Guide, CD ROM (user manual and drivers), 15-Pin D-Sub cable, 24-Pin DVI-D cable, AC power cord, power adaptor RS-232 cable and USB cable, support bracket

Clever Little Box.

• **DI705M:** SmartPad 7" Android Tablet

Our latest entry to the exploding MID Market (moble internet devices), our new 'SmartPad' is an ultra-compact 7" interactive tablet built around the Google Android operating system.

Combining sleek, compact styling with powerful mobile media and internet computing, this 'go-anywhere' device is ideal for wire-free, mobile AV control, interactive teaching & learning or simply for personal work and play.

Packed with a whole host of high-end features; including bright, responsive 7" touchscreen, WiFi, webcam, 2Gb internal memory + SD card expansion, HDMI & HD support and internal loudspeakers - plus access to thousands of AV control, education, business and entertainment applications; the new MediaTouch gives you a whole lot more Tablet for a whole lot less money!

Features:

- Android 2.1 800MHz ARM11
- 7.0" 800 x 480 4:3 touch screen
- 512M DDR2 RAM
- 2Gb memory built-in, micro SD card expandable up to 32Gb
- Wi-Fi, HDMI, Webcam, TV-OUT, vibrate motor, remote controller
- HOST port for 3G dongle, USB flash drive, keyboard, mouse, GPS, etc external device connection
- Full HD 1080P supports MPEG-2, MPEG-4, AVS, H.264, WMV, AVI, MP4, RMVB, FLV, MKV
- Ebook support PDF, EPUB, TXT, HTM, HTML, RTF
- G-sensor
- 3400mAH polymer rechargeable battery for 6hrs use
- Music, movies, G-mail, e-mail, MSN, Skype, Facebook, Adobe Reader, FB Reader, Google Maps, YouTube, Flash
- 3 x 1W, 7Ω speakers
- 3.5mm earphone jack
- 5 Pin USB port
- 5v DC In
- Brushed Aluminium casing

Pre-loaded with:

All-in-One Digital Signage	230
Glasses-free 3D Digital Signage	231
Glasses-free 3D LCD Screens	232 ~ 233
HD Display Screens	234
Multi-Screen Video Walls	235

Clever Little Box.

Luminis AiO: All-in-One Digital Signage

Clever Little Box's latest generation Luminis AiO is the all-in-one solution for creating and running your own unique on-screen digital channel for enhancing communications and delivering eye-catching information.

Luminis AiO is straight out of the box and ready to use. It supports all Windows media file formats and allows you to create your own on-screen messages or play back web-based content.

Luminis AiO can be operated stand alone or can be configured in a network as 'Server' or 'Client' (same model configurable) networked and controlled remotely. Up to 100 Luminis 'client' players can be connected to your network.

Features:

- Latest generation high efficiency, low power consumption media player
- Fast and easy installation; up and running in minutes
- All-in-one plug and play solution
- Stand-alone or fully networked
- Simple and intuitive user interface
- Control locally or via web browser
- Use pre-designed display templates
- Design your own display templates
- Landscape & portrait display options

Play Back:

- Rich Site Summary (web feed)
- Still and moving images
- Video
- Flash animation
- Tickertape messages
- Powerpoint
- Web pages
- 5.1 audio playback
- Optional live TV feeds (Part No. USBTV)

Create, amend and control your own digital signage templates, content and schedules with Luminis AiO...

Specifications:

Model:	Luminis AiO
CPU	Intel Core 2 Duo, T3400
Chipset	Intel GM45 + ICH9M
Memory	200pin DDRII So-DIMM, 1Gb
Graphics	Intel GMA X4500MHD, HDMI Port x 1, D-Sub VGA Port x 2
Controller	Max Shared Video Memory is 512Mb
LAN	Intel Gigabit Ethernet 10/100/1000
Audio	Realtek ALC662 HD Audio CODEC on-board, stereo CH 5.1 with HDMI
Storage	SATA 2.5" HDD 160Gb
External I/O	2 x VGA Ports 4 x USB 2.0 Ports 1 x RS232 Port 1 x HDMI Port 2 x Audio connectors 1 x Audio Set Live Out 1 x Audio Set Mic-in 1 x Upgrade for Antenna Port
Power Requirements	Auto-ranging 110 ~ 240v , 4 ~ 2A , 60 ~ 50Hz, with IEC320 power inlet
Dimensions	166(W) x 48(H) x 157(D) mm
Weight	1.22kg

Luminis 3D: Auto-Stereoscopic, Glasses-Free 3D Digital Signage

Using the same Windows-based digital signage platform as our 2D 'Luminis AiO', Luminis 3D combines all the functionality and ease of use of 'standard' digital signage with state-of-the-art lenticular screen technology, to provide what are the most truly 'outstanding' signage results you can imagine!!

Luminis 3D can be operated as a stand-alone unit, or can be configured in a network as 'Server' or 'Client' (same Model configurable). Individual Client units in stand-alone mode can be controlled directly or on the local network via a web interface. Alternatively, if a number of units are networked, they can be controlled and updated over a wide area network.

Featuring fully-controllable templates and schedules, the Luminis signage platform supports a combination of both 3D and 2D media content, supporting video, Flash, RSS, streamed images, web pages, PowerPoint, tickertape, plus much more!

Adopting lenticular screen technology provides the only true solution to glasses-free 3D – essential, of course, for public signage where there is no control over the audience (and certainly no chance to hand-out free spectacles to every passer-by!)

As digital signage becomes the 'norm', the ability to catch an audience's attention and literally stop them in their tracks is the ultimate goal; Luminis 3D delivers.

Features:

- Outstanding glasses-free 3D system
- Windows platform, supporting all standard Windows media files
- Fast and easy installation; up and running in minutes
- All-in-one, plug and play solution
- Simple and intuitive browser-based user interface
- Control and update locally or remotely via web browser
- Pre-designed and self-configured display templates
- 'Unlimited' number of media/content channels
- Fully-programmable scheduling
- Configurable user permissions

Supported 2D content:

- Flash
- JPEG/BMP/GIF stills and slideshows
- MPEG/AVI video
- html/web pages
- PowerPoint
- Rich Site Summary (RSS feed)
- Optional live TV feeds (Part No. USBTV)
- …plus 5.1 audio playback

Supported 3D content:

- 3D Studio Max*
- MAYA*
- Live-action filmed in 3D*

(*requires processing to auto-stereoscopic format via 'Mixture' software application)

See page 232 ~ 233 for details of the **Magnetic 3D** Range of glasses-free Auto-Stereoscopic 3D LCD Screens.

Specifications:

Model:	Luminis 3D
Mother board	BIOSTAR TA780G M2+
CPU	AMD Socket AM2 Athlon 64 x 2, 4400+ (2.3GHz)
Chipset	AMD 780G
Memory	2048Mb Corsair DDR2 800MHz 4 x DDR2 DIMM Memory Slot Max. Supports up to 4GB Memory
Graphics Controller	GeForce 9600GT GPU with DDR3 512MB
LAN	Realtek 8168C/8111C on-chip, supporting 1000/100/10M bps
Audio	ATI 791A. Realtek High Definition Audio
Storage	1 x 120GB 3½" SATA II hard disk drive
External I/O	1 x PS/2 Mouse, 1 x PS/2 Keyboard 1 x Standard VGA Port 4 x USB 2.0 ports 1 x RS232 port 1 x DVI port 3 x Audio connectors 1 x RJ-45 10/100/1Gb Base-T Ethernet LAN connector
Watchdog	1 x Hardware watchdog
Indicators	Power On switch and indicator
System Management	CPU temperature monitoring, system temperature monitoring, and voltage monitoring of Vcore, +3.3v, +5v, +12v, -12v are all available to the application for monitoring and reporting.
Power Requirements	230v AC with IEC320 power inlet.
Environmental Conditions	Operating temperature range +5 °C to +40 °C in free air Shock and vibration compatible with light industrial usage.
Dimensions	360(W) x 45(H) x 240(D) mm
Weight	3.5kg

Need help choosing the right product?
Call our technical support team now on:
Tel. +44(0)115 977 0075

MAGNETIC3D

ENABL3D: Auto-Stereoscopic, Glasses-Free, 3D LCD Screens

The new Enabl3D range from Magnetic represents the cutting edge of 'glasses-free' 3D screen technology.

Using the latest generation of auto-stereoscopic (or 'lenticular') LCD technology, Magnetic Enabl3D screens allow incredible resolution and outstanding 3D large format displays without the need for any special glasses, eyewear, headgear or projectors.

Providing the ultimate in eye-catching, crowd-stopping displays, media and digital signage; video images and content appear to fly out of the screen and float in mid air!

The effect truly has to be seen to be believed.

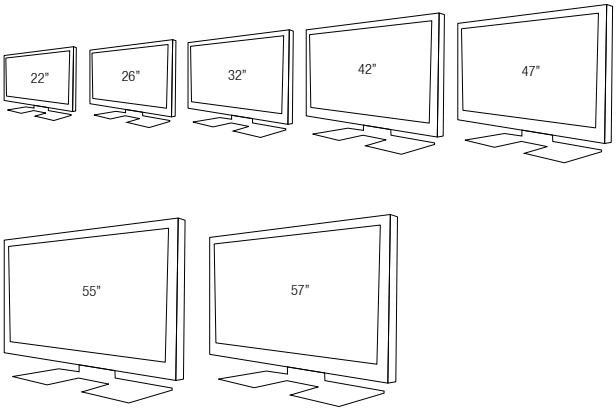
The Magnetic 3D proprietary overlay and industry-leading 3D render software combine to deliver truly stunning visual effects - all without the need for viewers to wear 3D glasses...

Features:

- Glasses-free 3D screen technology
- Autostereoscopic, Full-HD 1080p LCD screens
- 9-point multi-viewing 3D zones
- 176° ultra-wide viewing angle
- 50,000 hours viewing time
- Durable and discreet design and build
- IRFM technology helps prevent 'screen burn'
- Configurable Inputs/Outputs
- Active ambient light sensor for energy saving control

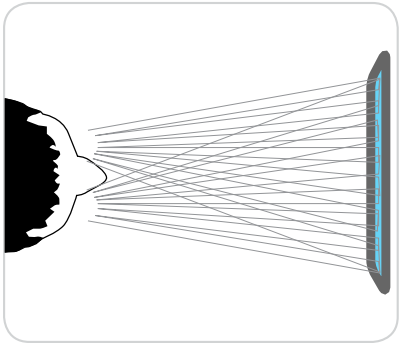
Part Numbers:

Part Number:	Screen sizes:
22Enable3D	22" 3D Stereoscopic Enabled Display Screen
26Enable3D	26" 3D Stereoscopic Enabled Display Screen
32Enable3D	32" 3D Stereoscopic Enabled Display Screen
42Enable3D	42" 3D Stereoscopic Enabled Display Screen
42Enable3DOF	42" 3D Stereoscopic Enabled open-frame Display Screen
47Enable3D	47" 3D Stereoscopic Enabled Display Screen
55Enable3D	55" 3D Stereoscopic Enabled Display Screen
57Enable3D	57" 3D Stereoscopic Enabled Display Screen



How does 3D Auto-stereoscopic screen technology work?..

Also known as 'lenticular', this glasses-free system is regarded as the ideal long-term 3D solution. A sheet of transparent, cylindrical lenses (known as 'lenticules') is fixed to a professional-grade, high definition LCD screen. These lenticules reflect light in specific, duplex acute angles to generate different images to each eye.



• ENABL3D: (contd)

Specifications:

Model:	22Enabl3D	26Enabl3D	32Enabl3D	42Enabl3DOF
3D Viewing Angle (Left/Right)	50°/50°	50°/50°	50°/50°	50°/50°
2D Viewing Angle	170°/160°	176°/176°	176°/176°	176°/176°
Brightness	280 nits	350 cd/m²	450 cd/m²	660 cd/m²
Contrast Ratio	1000:1	1500:1	3000:1	4000:1
Response Time	5ms	8ms	6.5ms	6.5ms
Supported Colours	TBD	16.7M colours	16.7M colours	16.7M colours
Horizontal/Vertical Frequency	30 ~ 82kHz, 50 ~ 75kHz	30 ~ 80kHz, 56 ~ 75kHz	35 ~ 65kHz, 56 ~ 75kHz	30 ~ 80kHz, 56 ~ 75kHz
Input/Output Connectors	VGA/DVI	DVI/VGA/Component/ AV/S-video	DVI/VGA/Component/ AV/S-video	DVI/VGA/Component/ AV/S-video
Mount Type	100 x 100mm VESA	200 x 200mm VESA	200 x 200mm VESA	
Power Supply	12v DC	230v AC	230v AC	230v AC
Normal Operation Power	<50W	<168W	<168W	<230W
Source Auto Detect		Yes	Yes	Yes
Operating Temperature	5° ~ 40°C	5° ~ 40°C	5° ~ 40°C	5° ~ 40°C
Display Diagonal	22"	26"	32"	42"
Optimum Viewing Distance	1.2 ~ 3 m	1.8 ~ 3.7 m	1.8 ~ 3.7 m	2.4 ~ 6 m
Perceived 3D Depth	0.3 m	0.45 m	0.5 m	0.6 m
Aspect Ratio	16:9	16:9	16:9	16:9
Display Resolution (WXGA)	1680 x 1050	1920 x 1200	1366 x 768	1920 x 1080
Dimensions (W x H x D)	503(W) x 418(H) x 240(D) mm	608(W) x 440(H) x 161(D) mm	793(W) x 483(H) x 94(D) mm	1018(W) x 610(H) x 124(D) mm
Weight	7.8kg	9kg	14kg	28kg

Additional Specifications:

Model:	42Enabl3D	22Enabl3D	26Enabl3D	32Enabl3D
3D Viewing Angle (Left/Right)	50°/50°	50°/50°	50°/50°	50°/50°
2D Viewing Angle	176°/176°	170°/160°	176°/176°	176°/176°
Brightness	661 cd/m²	280 nits	350 cd/m²	450 cd/m²
Contrast Ratio	4000:1	1000:1	1500:1	3000:1
Response Time	6.5ms	5ms	8ms	6.5ms
Supported Colours	16.7M colours	TBD	16.7M colours	16.7M colours
Horizontal/Vertical Frequency	30 ~ 80kHz, 56 ~ 75kHz	30 ~ 82kHz, 50 ~ 75KHz	30 ~ 80kHz, 56 ~ 75kHz	35 ~ 65kHz, 56 ~ 75kHz
Input/Output Connectors	DVI/VGA/Component / AV/S-video	VGA/DVI	DVI/VGA/Component/ AV/S-video	DVI/VGA/Component/ AV/S-video
Mount Type	200 x 200mm VESA	100 x 100mm VESA	200 x 200mm VESA	200 x 200mm VESA
Power Supply	230v AC	12v DC	230v AC	230v AC
Normal Operation Power	<230W	<50W	<168W	<168W
Source Auto Detect	Yes		Yes	Yes
Operating Temperature	5° ~ 40°C	5° ~ 40°C	5° ~ 40°C	5° ~ 40°C
Display Diagonal	42"	47"	55"	57"
Optimum Viewing Distance	3 ~ 6 m	3.7 ~ 7.3 m	4 ~ 7.8 m	4.8 ~ 8.5 m
Perceived 3D Depth	0.6 m	0.7 metres	0.8 metres	0.98 metres
Aspect Ratio	16:9	16:9	16:9	16:9
Display Resolution (WXGA)	1920 x 1080	1920 x 1080	1920 x 1079	1920 x 1080
Dimensions (W x H x D)	1022(W) x 615(H) x 124(D) mm	1136(W) x 686(H) x 126(D) mm	1265(W) x 835(H) x 135(D) mm	1358(W) x 793(H) x 154(D) mm
Weight	30kg	40kg	55kg	136kg

neovo

RX-W42: 42" Widescreen Full HD Display Screen

A full HD, full-featured 42" display protected by NeoV™ Optical Glass and Anti-Burn-in™ technology.

With a feature list as big as its 42" screen, the RX-W42 brings the ideal combination of size and specs to the professional AV environment. Review highly-detailed, smooth and accurate images on a bright Full HD display with AG Neovo's Advanced Image Platform™. Save costs and time by taking advantage of multiple video inputs and convenient Picture-in-Picture (PIP) options.

And thanks to protective NeoV™ Optical Glass, Anti-Burn-in™ technology, long-life screen and a durable metal frame, this display will be performing for years to come.

Features:

- 1920 x 1080 Full HD resolution
- 4000:1 contrast ratio
- NeoV™ Optical Glass
- Anti-Burn-in™ technology
- Smart Omni Viewer: PIP, PBP & VOV functions
- Built-in Image enhancer: 3D Comb Filter/Deinterlace/Noise Reduction
- Multiple video inputs (BNC in x 2, BNC out x 2)
- RS-232 for individual and multi-display control
- Horizontal resolution up to 630TVL (NTSC), 650TVL (PAL)
- Built-in HDCP allows HD-format video
- Power DC-out design to power connected peripherals
- Selectable aspect ratio for ultimate image: Native, Overscan, Underscan
- NTSC/PAL/SECAM video system support
- Quick signal-switching time (≤0.8 sec)
- IR remote control
- Durable metal housing
- VESA standard wall mount
- Rigorous screening of the components for mission-critical 24/7 applications

NeoV™ Optical Glass protects against scratches, impacts and other physical damage

Viewing versatility with Picture-in-Picture (PIP), Picture-by-Picture (PBP) and Video-on-Video (VOV)

Anti-Burn-in™ technology prevents image sticking

Durable metal casing for enhanced strength and secure mounting

Specifications:

Model:	RX–W42
Panel -	
Panel Type	TFT LCD
Panel Size	42.0" (1067mm)
Max. Resolution	FHD 1920 x1080
Pixel Pitch	0.48455mm
Brightness	450 cd/m² (Typical)
Contrast Ratio	4000:1 (Typical)
Viewing Angle (H/V)	178°(H), 178°(v) (Typical)
Display Colour	16.7M
Response Time	6.5ms (GTG)
Horizontal resolution - TV Lines	630TVL (NTSC), 650TVL (PAL)
Frequency (H/V)	H: 24 ~ 82 kHz, V: 50 ~ 85 Hz
Input -	
VGA	15-Pin D-Sub
DVI	24-Pin DVI-D
CVBS	BNC x 2
S-Video	4-Pin mini DIN
Component(Y PbPr)	RCA x 2
Output -	
CVBS	BNC x 2
S-Video	4-Pin mini DIN
Audio -	
Audio In	1 x stereo audio in for PC (3.5Ø), 1 x stereo audio in for CVBS (RCA), 1 x stereo audio in for S-Video (RCA), 2 x stereo audio in for YPbPr (RCA)
Audio Out	1 x stereo audio out for CVBS (RCA)
Speaker	2W x 2
Power -	
DC Output	12v, 350 mA, DC jack 2.5Ø
Power	100 ~ 240v, 50 ~ 60 Hz
Consumption	< (165) W (On), < (10) W (Off)
NeoV™ Optical Glass -	
Thickness	3.0mm (0.12")
Reflection Rate	<1%
Transmission Rate	>96%
Coating Hardness	>9H
Operating Conditions -	
Temperature	0 °C ~ 40 °C
Humidity	10% ~ 85%
Mounting - VESA FPMPMI	Yes (600 x 400 mm, 400 x 200 mm)
Dimensions -	
w/o base	1011(W) x 604(H) x 106(D) mm
w/ base	1011(W) x 667(H) x 190(D) mm
Weight -	
w/o base	27.0 kg
w/ base	28.4 kg
Accessories	User manual, 15-Pin VGA cable, 24-Pin DVI cable, power cord, audio cable, IR remote control

- **DS-42A22:** 2 x 2 Multi-Screen Video Wall System
- **DS-42A33:** 3 x 3 Multi-Screen Video Wall System
- **DS-42A44:** 4 x 4 Multi-Screen Video Wall System
- **DS-42A55:** 5 x 5 Multi-Screen Video Wall System
- **DS-MSC:** Multi-Screen Controller

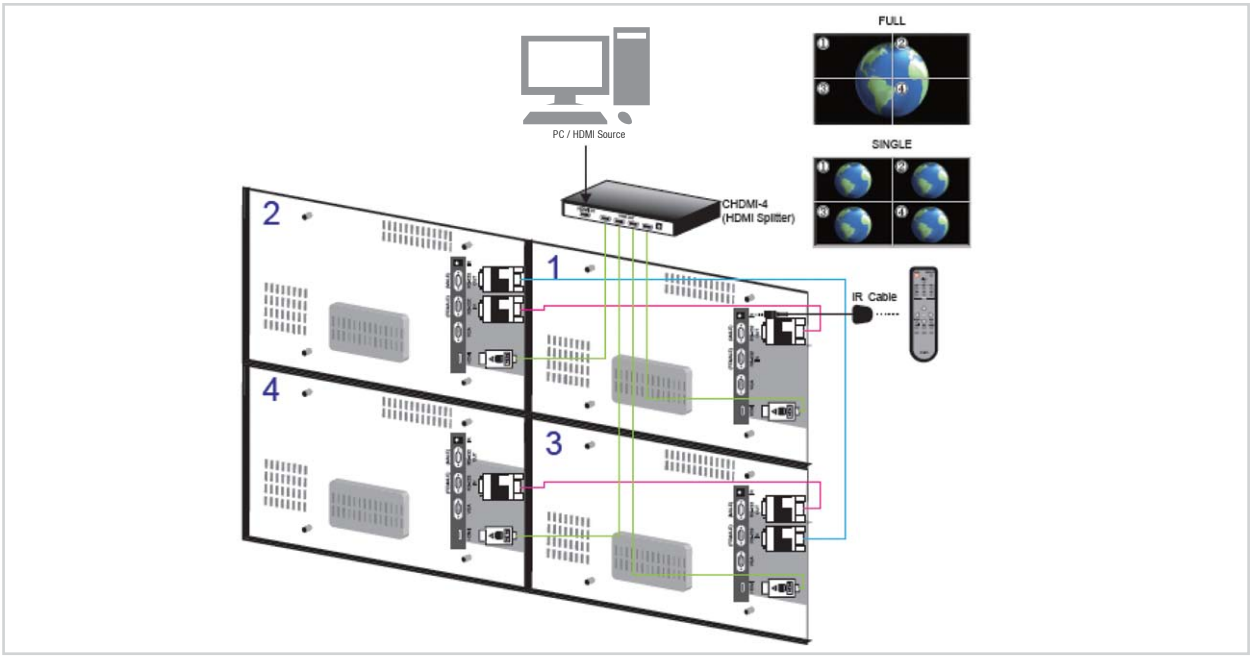
Flexibility is the key to the CYP Digital Signage Solutions. There are three standard packages which provide a complete system solution for many commercial applications. The packages include a Single 42" screen option, 2x2, 3x3, 4x4 and a 5X5 complete digital signage system.

All CYP screen packages include built-in control modules and use the latest LED technology with screens operating at full HD resolutions of 1920 x 1080P, with bi-directional RS-232 control functionality enabled.

All package solutions are supplied with a full mounting system to enable the installer to secure the system to any wall or display area.

Features:

- Supports 4-Screen (2 x 2), 9-Screen (3 x 3), or 16-Screen (4 x 4), or 25-screen (5 x 5) video wall panel combinations
- Supports Full HD 1920 x 1080 resolution LCD panels
- Full two-way RS-232 Control
- Horizontal or Vertical Screen Orientation (both Mounting Kits available)
- Single Image or Independent Split Screen Images
- Independent Controller available for integration with third-party Screens
- 10mm Bezel
- ALSO AVAILABLE IN 47" 6mm Bezel option: Contact for details



Specifications:

DS–MSC (Multi–Screen Controller)	DS–42A22	DS–42A33	DS–42A44	DS–42A55
For use with third party screens to emulate a video wall. This controller will control the digital signage content for each screen on a video wall system using up to 16 screens. One controller is required per screen. If the user has only one HDMI or VGA source, then an appropriate Distribution Amplifier will be required to split the source signal to each of the Muilt-Screen Controllers.	2 x 2 Video Wall System 4 x 42" 1080P LCD Screens (with HDMI & VGA Connections) 4 x Wallmount Kit 1 x 4-way splitter 1 x IR remote and cable	3 x 3 Video Wall System 9 x 42" 1080P LCD Screens (with HDMI & VGA Connections) 9 x Wallmount Kit 1 x 10-way splitter 1 x IR remote and cable	4 x 4 Video Wall System 16 x 42" 1080P LCD Screens (with HDMI & VGA Connections) 16 x Wallmount Kit 1 x 16-way splitter 1 x IR remote and cable	5 x 5 Video Wall System 25 x 42" 1080P LCD Screens (with HDMI & VGA Connections) 25 x Wallmount Kit 2 x 16-way splitter 1 x IR remote and cable

Stunning 3D Ready High Definition
watch any source on any screen

3D READY

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

The OR-HD88S is the ultimate in HDMI matrix solutions for displaying any of the 8 input sources to any comination of, up to, 8 connected HD displays. This super reliable, robust solution supports 3D signals, 'Deep Colour' and High Definition Audio whilst also giving the ability to extend the HDMI signal for longer transmission lengths. A true installers choice where unbeaten quality and value are paramount.

CYP

See page 255 for full details.